

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 1 52
2. AMENDMENT / MODIFICATION NO. One (01)	3. EFFECTIVE DATE 7 Jun 2000	4. REQUISITION / PURCHASE REQ NO.	5. PROJECT NO. (if applicable)
6. BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230	CODE	7. ADMINISTERED BY (if other than item 6)	CODE
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121	CODE	FACILITY CODE	9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373 10B. DATED (SEE ITEM 13) November 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:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 3 copies to issuing office.

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

see attached

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

NAME AND TITLE OF SIGNER (Type or print) William H. Ewing, Contract Manager	15A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams - Cont' Officer
CONTRACTOR / OFFEROR 	15B. UNITED STATES OF AMERICA 
15C. DATE SIGNED 6/28/00	15C. DATE SIGNED 6/28/00
Signature of person authorized to sign	(Signature of Contracting Officer)

NSF Contract No. OPP-0000373  
Modification No. One (01)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, identify the Contractor's business segment responsible for the performance of work, update property inventories and assign custody for Government Furnished Equipment to the Contractor, revise property reporting and continuity of service requirements, and establish an industrial security requirement. Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$23,000,000
01020200-1296-05XX-2542	Increase: \$ 6,000,000
01020200-1283-05XX-2542	Increase: \$ 1,000,000

- Block 7 of the Contract Cover Page (SF 26) is revised to read as follows:

*Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121*

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 01	Subtotals
Est. Cost	\$9,794,040	\$0	\$29,283,000	\$39,077,040
Billable Fee				
Award & Base Fees				
Total Allotted				

Funds in the amount of \$6,000,000 are provided for the South Pole Station Modernization project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS 4.2 of the FY 2000 Program Plan. However, funds allocated to the South Pole Modernization project shall not be reprogrammed to support other contract activities. Total funding allotted to the South Pole Modernization project in FY 2000 is \$6,000,000.

Funds in the amount of \$1,000,000 are provided for the South Pole Safety and Environment project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS 4.1 of the FY 2000 Program Plan. However, funds allocated to the South Pole Safety and Environment project shall not be reprogrammed to support other contract activities. Total funding allotted to the South Pole Safety and Environment project in FY 2000 is \$1,000,000.

It is estimated that these funds are sufficient for the performance of work through June 30, 2000.

4. Section F3.2.1 is revised to read as follows:

*F3.2.1 Real Property (see Attachment 4 and Attachment 4a)*

5. Section F11, *Property Reporting*, is revised to read as follows:

**F11 PROPERTY REPORTING**

*a. Definitions – As used in this Subsection F11 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 No. 6, titled "Accounting for Property, Plant, and Equipment."*
- 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).*

**b. Equipment**

1. *Prior to 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. The Contractor shall also report on property classified as acquired through an assignable lease.*

(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. *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)*

**3. 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.**

**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) Equipment identified as accountable property.*

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

*(b) Equipment acquired by capital lease.*

*(c) Equipment acquired by assignable lease.*

c. *Real Property*

1. *Prior to 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. The Contractor shall also report on property classified as acquired through an assignable lease.*

(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. *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)*

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. *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) *Equipment acquired by assignable lease.*

d. *Construction-in-Progress*

1. *Prior to 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)*



NSF Contract No. OPP-0000373  
Modification No. One (01)

e. *Deferred Maintenance*

1. *Prior to 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. NSF Form 1408**

1. *NSF Form 1408, titled "NSF Property in the Custody of Awardees," shall be completed and submitted to the Foundation prior to October 15 each year (notwithstanding the form's instructions). This report shall be complete as of September 30 of the current year.*

2. *An inventory of equipment classified as capitalized property shall be submitted with the completed NSF Form 1408 to support the dollar amount cited in column "f".*

**g. 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 prior to 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.*

**h. 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.**

**NSF Contract No. OPP-0000373  
Modification No. One (01)**

*i. 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*

6. Section H6, *Transition*, is revised to read as follows:

**H6. Transition**

*It is understood and acknowledged by the Contractor that its obligations under paragraphs (b) and (c) of the clause titled "Continuity of Services" of this contract shall begin six months prior to the expiration date of this contract.*

7. Section II, *FAR Clauses Incorporated by Reference*, is revised to include the following clauses, incorporated by reference.

52.204-2	Security Requirements	AUG 1996
52.237-3	Continuity of Services	JAN 1991

8. In Section J1, *Listing of Attachments*, delete Item No. Four, Item No. Five and Item No. Six in their entirety, and substitute the following:

4.	Real Property Listing (Buildings)	7 Jun 00	4	§F3.2.1
4a.	Real Property Listing (Structures and Facilities)	30 Sep 99	2	§F3.2.1

5.	Personal Property Valued at \$25,000 or Greater Listing	30 Sep 99	9	§F3.2.2
6.	Property Valued Between \$5,000 and \$25,000 Listing	None	25	§F3.2.3

9. Delete Attachment 4 in its entirety, and substitute the documents identified as Attachment 4 and Attachment 4a as attached to this modification.
10. Delete Attachment 5 in its entirety, and substitute the enclosed document identified as Attachment 5 as attached to this modification.
11. Delete Attachment 6 in its entirety, and substitute the enclosed document identified as Attachment 6 as attached to this modification.

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**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT** 1. CONTRACT ID CODE PAGE OF PAGES  
1 1 2

2. AMENDMENT / MODIFICATION NO. Two (02) 3. EFFECTIVE DATE 1 Sep 2000 4. REQUISITION / PURCHASE REQ NO. 5. PROJECT NO. (if applicable)

6. ISSUED BY NATIONAL SCIENCE FOUNDATION  
CPO - CONTRACTS BRANCH, SECTION II  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230  
7. ADMINISTERED BY (if other than Item 6)

8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373  
10B. DATED (SEE ITEM 13) November 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 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:  
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.

NAME AND TITLE OF SIGNER (Type of print) 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams  
15B. CONTRACTOR / OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED 9/1/00  
(Signature of person authorized to sign) (Signature of Contracting Officer)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020200-5140-02XX-2542	Increase: \$23,689,000
01020200-5146-02XX-2542	Increase: \$ 4,628,132

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 02	Subtotals
Est. Cost	\$39,077,040	\$0	\$27,640,353	\$66,717,393
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these these funds are sufficient for the performance of work through September 30, 2000.

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**AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT**

CONTRACT ID CODE PAGE OF P.  
1 1 2

2. AMENDMENT / MODIFICATION NO. **Three (03)** 3. EFFECTIVE DATE **per Block 16c** 4. REQUISITION / PURCHASE REQ NO. 5. PROJECT NO. (if applicab

SUED BY NATIONAL SCIENCE FOUNDATION  
CPO - CONTRACTS BRANCH, SECTION II  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230

8. NAME AND ADDRESS OF CONTRACTOR  
Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121

9A. AMENDMENT OF SOLICITATION NO. (✓)  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT / ORDER NO. **OPP-0000373**  
10B. DATED (SEE ITEM 13) **November 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 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 follow methods: (a) By completing Items 8 and 15, and returning \_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each cc of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOU ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT 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, provic 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 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:

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)  
**William A. Bryant; 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)* **9/25/00**

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020200-1296-05XX-2542	Increase: \$4,204,190
01020300-5111-02XX-2542	Increase: \$ 42,212
01020300-5112-02XX-2542	Increase: \$ 15,328
01020300-5116-02XX-2542	Increase: \$ 2,000
01020300-5130-02XX-2542	Increase: \$ 20,005
01020200-5140-02XX-2542	Increase: \$1,958,625

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 03	Subtotals
Est. Cost	\$66,717,393	\$0	\$6,096,650	\$72,814,043
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these these funds are sufficient for the performance of work through September 30, 2000.

Funds in the amount of \$4,204,190 are provided for the South Pole Station Modernization project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS 4.2 of the FY 2000 Program Plan. However, funds allocated to the South Pole Modernization project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the South Pole Modernization project in FY 2000 is \$10,204,190.

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**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE PAGE OF P.  
1 1 2

2. AMENDMENT / MODIFICATION NO. <b>Four (04)</b>	3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO.	5. PROJECT NO. (if applicable)
ISSUED BY <b>NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		7. ADMINISTERED BY (if other than item 6)	

8. NAME AND ADDRESS OF CONTRACTOR <b>Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121</b>	(✓)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
	X	10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>
		10B. DATED (SEE ITEM 13) <b>November 1, 1999</b>

**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. 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 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:
D. OTHER (Specify type of modification and authority) <b>X FAR Clause 52.232-22</b>

**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.

NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Patricia S. Williams; Contracting Officer</b>	
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 <b>11/27/00</b>

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds. Accordingly, this contract is hereby modified as follows:

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

01020200-5146-02XX-2542	Increase: \$10,000,000
01020200-5140-02XX-2542	Increase: \$35,000,000

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 04	Subtotals
Est. Cost	\$72,814,043	\$0	\$43,971,076	\$116,785,119
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through January 31, 2001.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT / MODIFICATION NO. <b>Five (05)</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO.
ISSUED BY <b>NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		7. ADMINISTERED BY (if other than Item 6)	5. PROJECT NO. (if applicable)
8. NAME AND ADDRESS OF CONTRACTOR  <b>Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121</b>		(✓)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>
			10B. DATED (SEE ITEM 13) <b>November 1, 1999</b>

**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 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) <b>FAR Clause 52.232-22</b>

**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 of print) <b>Patricia S. Williams; Contracting Officer</b>	
9. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
 <i>(Signature of person authorized to sign)</i>		 <i>(Signature of Contracting Officer)</i>	

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds. Accordingly, this contract is hereby modified as follows:

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

01020000-X787-0101-2542	Increase: \$ 480,868
01020000-1922-0198-2542	Increase: \$ 850,640
01020200-1283-05XX-2542	Increase: \$ 300,000
01020200-1296-05XX-2542	Increase: \$ 8,000,000
01020200-5140-02XX-2542	Increase: \$45,000,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Item	Estimate	Adjustment	New Total	Subtotal
Est. Cost	\$116,785,119	\$0	\$53,353,131	\$170,138,250
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through June 30, 2001.

Funds in the amount of \$480,868 are provided for the McMurdo Joint Special Operations Center (JSOC) project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among WBS KL00B5481 and WBS KL00B7762 of the FY 2001 Program Plan. However, funds allocated to the JSOC project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the JSOC project in FY 2001 is \$480,868.

Funds in the amount of \$850,640 are provided from the NSF IT Information Technology Infrastructure Investment Fund for the Dry Valleys Communication Project and the Palmer Station Commercial SATCOM Project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among WBS KL00B7717 and KL00B7735 of the FY 2001 Program Plan. However, funds allocated to these projects **shall not** be reprogrammed to support other contract activities. Total funding allotted from the NSF IT Information Infrastructure Investment Fund in FY 2001 is \$850,640.

Funds in the amount of \$300,000 are provided for the South Pole Safety and Environment project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS 4.1 of the FY 2001 Program Plan. However, funds allocated to the South Pole Modernization project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the South Pole Safety and Environment project in FY 2001 is \$300,000. Total funding allotted to the South Pole Safety and Environment project is \$1,300,000.

Funds in the amount of \$8,000,000 are provided for the South Pole Station Modernization project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the

projects identified in WBS 4.2 of the FY 2001 Program Plan. However, funds allocated to the South Pole Modernization project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the South Pole Station Modernization project in FY 2001 is \$8,000,000. Total funding allotted to the South Pole Station Modernization project is \$18,204,190.

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**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. CONTRACT ID CODE PAGE OF PA  
1 1 2

2. AMENDMENT / MODIFICATION NO. **Six (06)**  
3. EFFECTIVE DATE **per Block 16c**  
4. REQUISITION / PURCHASE REQ. NO.  
5. PROJECT NO. (if applicable)

ISSUED BY NATIONAL SCIENCE FOUNDATION  
CPO - CONTRACTS BRANCH, SECTION II  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230  
7. ADMINISTERED BY (if other than Item 6)

8. NAME AND ADDRESS OF CONTRACTOR  
Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT / ORDER NO.  
**OPP-0000373**  
10B. DATED (SEE ITEM 13)  
**November 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, provide 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 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:  
D. OTHER (Specify type of modification and authority)  
**X 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)  
CONTRACTOR / OFFEROR  
*(Signature of person authorized to sign)*  
15C. DATE SIGNED  
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  
**Patricia S. Williams; Contracting Officer**  
16B. UNITED STATES OF AMERICA  
*Patricia S. Williams*  
*(Signature of Contracting Officer)*  
16C. DATE SIGNED

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020200-5140-02XX-2542	Increase: \$15,800,000
01020200-5146-02XX-2542	Increase: \$ 5,000,000
01020100-5205-02XX-2542	Increase: \$ 150,000

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod. 06	Subtotals
Est. Cost	\$170,138,250	\$0	\$20,449,295	\$190,587,545
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through August 31, 2001.

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**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT** 1. CONTRACT ID CODE PAGE OF P  
1 1 2

2. AMENDMENT / MODIFICATION NO. Seven (07) 3. EFFECTIVE DATE per Block 16c 4. REQUISITION / PURCHASE REQ NO. OPP-0140292 5. PROJECT NO. (if applical)

6. ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230 CODE 7. ADMINISTERED BY (if other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR  
Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

X 10A. MODIFICATION OF CONTRACT / ORDER NO.  
OPP-0000373

10B. DATED (SEE ITEM 13)  
November 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)  
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 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)  
Patricia S. Williams; Contracting Officer

CONTRACTOR / OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED

(Signature of person authorized to sign) (Signature of Contracting Officer)  
9/27/01



The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020200-5146-02XX-2542	Increase: \$5,509,064
01020300-5112-02XX-2542	Increase: \$ 131,645
01020300-5130-02XX-2542	Increase: \$ 88,185
01020300-5113-02XX-2542	Increase: \$ 61,685
01020200-5140-02XX-2542	Increase: \$4,945,403
01020300-5115-02XX-2542	Increase: \$ 29,362
01020000-W176-0101-2542	Increase: \$ 105,487

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Est. Cost	\$190,587,545	\$0	\$10,611,018	\$201,198,563
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through October 15, 2001.

Funds in the amount of \$105,487 are provided for the MTRS/ASR8 Relocation project (FY 2001 Program Plan, WBS KL00B5487). Funds allocated to the MTRS/ASR8 Relocation project shall not be reprogrammed to support other contract activities. Total funding allotted to the MTRS/ASR8 Relocation project in FY 2001 is \$105,487.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGE 1   2
2. AMENDMENT / MODIFICATION NO. <b>Eight (08)</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>OPP-0140428</b>	5. PROJECT NO. (if applicable)
ED BY <b>NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		CODE	7. ADMINISTERED BY (if other than Item 6)	CODE
8. NAME AND ADDRESS OF CONTRACTOR <b>Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121</b>			( <input checked="" type="checkbox"/> ) 9A. AMENDMENT OF SOLICITATION NO.	
CODE			FACILITY CODE	
			( <input type="checkbox"/> ) 9B. DATED (SEE ITEM 11)	
			( <input checked="" type="checkbox"/> ) 10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>	
			10B. DATED (SEE ITEM 13) <b>November 1, 1999</b>	

**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 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:	
D. OTHER (Specify type of modification and authority) <b>X FAR Clause 52.232-22</b>	

**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.

1. NAME AND TITLE OF SIGNER (Type of print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Patricia S. Williams; Contracting Officer</b>	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA 	16C. DATE SIGNED <b>9/27/07</b>
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

NSF Contract No. OPP-0000373  
Modification No. Eight (08)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020000-W178-0101-2542	Increase: \$ 3,011
01020000-W177-0101-2542	Increase: \$38,240

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

	Estimate	Modification	MGS	Subtotal
Est. Cost	\$201,198,563	\$0	\$40,288	\$201,238,851
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through October 15, 2001.

Funds in the amount of \$41,251 are provided for CTBT related project activities (FY 2002 Program Plan, WBS R-PS01-221B71). Funds allocated to CTBT related project activities shall not be reprogrammed to support other contract activities. Total funding allotted to CTBT related project activities in FY 2002 is \$41,251.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   3
AMENDMENT / MODIFICATION NO. Nine (09)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. OPP-0201730	5. PROJECT NO. (if applicable)
BY NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230	CODE	7. ADMINISTERED BY (if other than Item 6)	CODE
NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121		(✓) 9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
		X 10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373	
CODE FACILITY CODE		10B. DATED (SEE ITEM 13) November 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.

2. 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.

4. 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.

5. 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:

D. OTHER (Specify type of modification and authority)  
X FAR Clause 52.232-22; FAR Part 43.103(a)

IMPORTANT: Contractor  is not,  is required to sign this document and return 2 copies to issuing office.

4. 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.

5A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
5B. CONTRACTOR / OFFEROR 	16B. UNITED STATES OF AMERICA 
15C. DATE SIGNED 11/05/01	16C. DATE SIGNED 11/05/01

FORM 30 (REV. 10-83)

PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

NSF Contract No. OPP-0000373  
 Modification No. Nine (09)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, and make other mutually agreeable contract revisions concerning the headquarters facility lease. Accordingly, this contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$35,000,000
01020200-5140-02XX-2542	Increase: \$10,000,000

- In Section B4, *Consideration (Cost-Plus-Award-Fee Services)*, add the following designated as Section B4.1.7, *Limitation on Costs Related to Leasing of the Facility Located at 7400 South Tucson Way, Englewood, Colorado.*

*B4.1.7 Limitation on Costs Related to Leasing of the Facility Located at 7400 South Tucson Way, Englewood, Colorado*

*B4.1.7.1 Definitions – As used in this subsection, the following terms shall have the meaning set forth herein.*

*B4.1.7.1.1 "Costs" has the same meaning as set forth at Section B4.1.6.1.1.*

*B4.1.7.1.2 "Damages" has the same meaning as set forth at Section B4.1.6.1.2.*

*B4.1.7.1.3 "Proceeding" has the same meaning as set forth at Section B4.1.6.1.3.*

*B4.1.7.1.4 "Facility" means the premises as described in the office building lease between KOLL BREN FUND V L.P., a Delaware limited partnership, and RAYTHEON COMPANY, a Delaware corporation, signed August 2001.*

*B4.1.7.2 To the extent that certain costs related to leasing of the facility are otherwise allowable per FAR Subpart 31 and other clauses of this contract, no costs whatsoever relate to legal and other proceedings (including matters disposed of by compromise prior to judgment) and damages (including, but not limited to payments of compensatory damages and back pay) with respect to the application or slowdown in the facility lease of FAR Clauses 52.222-26 ("Equal Opportunity"), 52.222-35 ("Affirmative Action for Special Disabled and Vietnam Era Veterans"), and 52.222-36 ("Affirmative Action for Workers with Disabilities") shall be billed to NSF or reimbursed to the Contractor under this contract where the result is an adverse finding to the Contractor or the matter is disposed of by compromise prior to judgment if the proceeding would have led to such an adverse finding.*

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Est. Cost	\$201,238,851	\$0	\$43,949,604	\$245,188,455
Billable Fee				
Award & Base Fees				
Total Allotted				

NSF Contract No. OPP-0000373  
Modification No. Nine (09)

It is estimated that these funds are sufficient for the performance of work through January 31, 2002.

- 4. In Section H, *Special Contract Requirements*, add the following designated as Section H18, *Lease Assignment for the Facility Located at 7400 Tucson Way, Englewood, Colorado.*

H18. *Lease Assignment for the Facility Located at 7400 Tucson Way, Englewood, Colorado.*

H18.1 *For the purposes of this subsection only, "facility" has the same meaning as set forth at Section B4.1.7.1.4.*

H18.2 *Upon expiration of this contract and Contractor failure to win a follow-on award that requires use of the facility NSF will assign the facility lease to any successor contractor, or another company or organization of its choosing, assume the lease obligation or incur the facility lease termination cost. This requirement is subject to the Contract's "Limitation of Funds" clause.*

[balance of page intentionally left blank]

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 1 13

2. AMENDMENT / MODIFICATION NO.

Ten (10)

3. EFFECTIVE DATE

per Block 16c

4. REQUISITION / PURCHASE REQ NO.

OPP-0206865

5. PROJECT NO. (If applicable)

BY

CODE

7. ADMINISTERED BY (if other than item 6)

CODE

NATIONAL SCIENCE FOUNDATION  
CPO - CONTRACTS BRANCH, SECTION II  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230

8. NAME AND ADDRESS OF CONTRACTOR

Raytheon Technical Services Company, Polar Services  
61 Inverness Drive East, Suite 300  
Englewood, Colorado 80112-5121

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT / ORDER NO.

OPP-0000373

10B. DATED (SEE ITEM 13)

November 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)

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 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:

D. OTHER (Specify type of modification and authority)

FAR Clause 52.232-22; FAR Part 43.103(a)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 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 or print)

WILLIAM H. EWING - DIRECTOR, CONTRACTS

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

PATRICIA S. WILLIAMS  
Contracting Officer

CONTRACTOR / OFFEROR

15C. DATE SIGNED

10/19/01

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

12/19/01

(Signature of person authorized to sign)

(Signature of Contracting Officer)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, correct an error in earlier modifications, revise property reporting requirements, and update and identify key personnel assigned to the contract. Accordingly, this contract is hereby modified as follows:

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

01020200-1296-05XX-2542

Increase: \$10,000,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Est. Cost	\$245,188,455	\$0	\$9,771,350	\$254,959,805
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through January 31, 2002.

Funds in the amount of \$10,000,000 are provided for the South Pole Station Modernization project. These funds may be reprogrammed in accordance Section F5.6 of this contract among the projects identified in WBS 4.2 through WBS 4.5 of the FY 2002 Program Plan. However, funds allocated to the South Pole Station Modernization project shall not be reprogrammed to support other contract activities. Total funding allotted to the South Pole Station Modernization project in FY 2002 is \$10,000,000. Total funding allotted to the South Pole Station Modernization project is \$28,204,190.

3. In OPP-0000373.M01, Item No. 3; OPP-0000373.M03, Item No. 2; and OPP-0000373.M05, Item No. 2, South Pole Station Modernization project reprogramming authority is limited to WBS 4.2 of the program plans identified therein. This is incorrect. Reprogramming authority is properly limited to WBS 4.2 through WBS 4.5 of the identified program plans. Accordingly, in the second paragraph of OPP-0000373.M01, Item No. 3; in the third paragraph of OPP-0000373.M03, Item No. 5; and in the sixth paragraph of OPP-0000373.M05, Item No. 2, delete the phrase *WBS 4.2* and substitute the phrase *WBS 4.2 through WBS 4.5* in the second sentence. This revision is effective as of the effective dates of the respective contract modifications.

4. Section F11, *Property Reporting*, is revised to read as follows:

**F11 PROPERTY REPORTING**

a. *Definitions – As used in this Subsection F11 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 6b). 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 6c).

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. The Contractor shall also report on property classified as acquired through an assignable lease.

(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. The Contractor shall also report on property classified as acquired through an assignable lease.*

- (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 convertability*

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" (see Attachment 6b). 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. *NSF Form 1408*

1. *NSF Form 1408, titled "NSF Property in the Custody of Awardees," shall be completed and submitted to the Foundation on or before October 15 each year (notwithstanding the form's instructions). This report shall be complete as of September 30 of the current year.*

2. *An inventory of equipment classified as capitalized property shall be submitted with the completed NSF Form 1408 to support the dollar amount cited in column "f".*

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.*

k. *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*

5. In Section H2, *Key Personnel*, delete the table included therein and substitute the following:

Program Manager	100%
Science Executive	100%
Chief of Operations	100%
Director, Logistics	100%
Information Systems Executive	100%
South Pole Redevelopment Project Manager	100%
Facilities Engineering and Construction Executive	100%
Director, Operations	100%

6. In Section J1, *Listing of Attachments*, add the following as Item No. 6b and Item No. 6c respectively:

6b.	<i>National Science Foundation Software Property Asset Cost Worksheet</i>	4 April 01	1	§F11.a.2 -and- §F11.f.5
6c.	<i>National Science Foundation General Property, Plant and Equipment (PP&amp;E) Policy on Depreciation of Improvements</i>	N/A	1	§F11.a.2

7. Add the enclosed document titled *National Science Foundation Software Property Asset Cost Worksheet* as Attachment 6b to the contract.

8. Add the enclosed document titled *National Science Foundation General Property, Plant and Equipment (PP&E) Policy on Depreciation of Improvements* as Attachment 6c to the contract.

04/04/01

Attachment 6b

National Science Foundation  
Software Property Asset Cost Worksheet

Project I.D.					
Description					
		<b>Direct Costs</b>			
<b>Commercial Off the Shelf (COTS) Purchased Software</b>					
Purchase Order No.					
Purchase Order Amount					0.00
		<b>Direct Costs</b>			
<b>NSF Contractor Development Costs</b>					
Contract No.					
Contract Amount					0.00
<b>LESS : Exclusions</b>					
<b>a. Preliminary Design Costs</b>					
<b>b. Marketing Survey Costs</b>					
<b>c. Data Conversion Costs</b>					
<b>d. Minor Post-Implementation Costs</b>					
Total Exclusions		( )			( )
<b>NSF Internal Development Costs</b>					
<b>Salaries and Wages</b>		<b>Annual Salaries</b>	<b>% of Time on Project</b>	<b>Direct Salaries</b>	
Employee					
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
<b>Other Direct Costs</b>		<b>Direct Costs</b>			
Travel & Transportation					
Distributed General Administrative					
Total Other Direct Costs			0.00		0.00
<b>Grand Total ( Value recorded in NSF Property System)</b>					<b>0.00</b>

**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 for 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).

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 1 2
2. AMENDMENT / MODIFICATION NO Eleven (11)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. N/A	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE	7. ADMINISTERED BY (if other than item 6) CODE		
NATIONAL SCIENCE FOUNDATION CPO - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230			
8. NAME AND ADDRESS OF CONTRACTOR  Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121		(/)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373
CODE	FACILITY CODE		10B. DATED (SEE ITEM 13) November 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 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.L. 106-377; FAR Part 43.103(a)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 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 or print) TW Kelington Vice President, RFC POLAR SERVICES	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bridwell Contracting Officer
15B. CONTRACTOR / OFFEROR 	16B. UNITED STATES OF AMERICA 
15C. DATE SIGNED Jan 11, '02	16C. DATE SIGNED 1/11/02
(Signature of person authorized to sign)	(Signature of Contracting Officer)

NSF Contract No. OPP-000373  
Modification No. Eleven (11)

The purpose of this modification to NSF Contract No. OPP-000373 is to reallocate funds from the South Pole Station Modernization project to the South Pole Safety and Environment project, and to identify the Contractor's contribution to the South Pole Safety and Environment project. Accordingly, this contract is hereby modified as follows:

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

01020200-1296-05XX-2542	Decrease: \$500,000
01020200-1283-05XX-2542	Increase: \$500,000

2. In Section B5, *Contract Funding*, the total amount allotted to this contract remains unchanged.

Funds in the amount of \$500,000 are reduced from the South Pole Station Modernization project. The remaining funds allotted in FY 2002 may be reprogrammed among the projects identified in WBS 4.2 through WBS 4.5 of the FY 2002 Program Plan in accordance with Section F5.6 of this contract. However, funds allotted to the South Pole Station Modernization project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the South Pole Station Modernization project in FY 2002 is \$9,500,000. Total funding allotted to the South Pole Station Modernization project is \$27,704,190.

Funds in the amount of \$500,000 are provided for the South Pole Safety and Environment project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among projects identified in WBS 4.1 of the FY 2000, FY 2001 and FY 2002 program plans. However, funds allotted to the South Pole Safety and Environment project **shall not** be reprogrammed to support other contract activities. Total funding allotted to the South Pole Safety and Environment project in FY 2002 is \$500,000. Total funding allotted to the South Pole Safety and Environment project is \$1,800,000.

3. In Section B6, *Notice Regarding Contractor Contributions to the USAP*, add the following identified as Section B6.5:

*B6.5 South Pole Safety and Environment project – contribution totaling \$440,144.*

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   2
AMENDMENT / MODIFICATION NO. Twelve (12)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. OPP-0220165	5. PROJECT NO. (if applicable)
ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - 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 Raytheon Technical Services Company, Polar Services 61 Inverness Drive East, Suite 300 Englewood, Colorado 80112-5121		(✓)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373
			10B. DATED (SEE ITEM 13) November 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.**

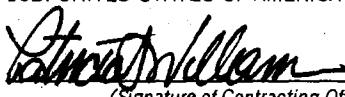
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN 10A.
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D. OTHER (Specify type of modification and authority) Section H15, 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)	
CONTRACTOR / OFFEROR		Patricia S. Williams; Contracting Officer	
15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)			2115102
		(Signature of Contracting Officer)	

NSF Contract No. OPP-0000373  
Modification No. Twelve (12)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, and formalize the Award Fee Adjustment for Contract Year No. One. Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$35,000,000
01020200-5146-02XX-2542	Increase: \$ 5,000,000

2. Section B3, *Award Fee Schedule*, is revised as follows to reflect the award fee score of \_\_\_\_\_ for Contract Year No. One:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2000 through March 31, 2001 (all WBS's)				

The award fee earned amount includes the \_\_\_\_\_ described in NSF's letter to RPSC dated December 26, 2001.

3. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustment	Mod. Eff.	Subtotal
Est. Cost	\$254,959,805	\$0	\$37,774,508	\$292,734,313
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through May 2002.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT / MODIFICATION NO. Thirteen (13)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. OPP-0226685	5. PROJECT NO. (if applicable)
6. ISSUED BY NATIONAL SCIENCE FOUNDATION CPO - 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 Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938	9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)	
CODE	FACILITY CODE	X	10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373
			10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	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.
X	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) Section H2; FAR 43.103(a); FAR Clause 52.232-22

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 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 or print) WILLIAM H. EWING, DIRECTOR, CONTRACTS	15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED 5/24/02	15D. UNITED STATES OF AMERICA	15E. DATE SIGNED MAY 28 2002
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bidwell Contracting Officer		16B. DATE SIGNED		
(Signature of person authorized to sign)		(Signature of Contracting Officer)		



NSF Contract No. OPP-0000373  
Modification No. Thirteen (13)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, revise the Contractor's address, provide for collection of billable fee at a rate of \_\_\_\_\_, provide for submission of property reports to the Contracting Officer, update contract clauses as required by relevant Federal Acquisition Circulars, and update and identify key personnel assigned to the contract. Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$35,000,000
01020200-1789-40XX-2542	Increase: \$ 194,249
01020100-5205-02XX-2542	Increase: \$ 428,000
01020300-5130-02XX-2542	Increase: \$ 30,000

2. The Contractor's name and address, identified on the Contract Cover Page (SF 26) at Block 7 and elsewhere within this contract, is revised to read as follows:

*Raytheon Technical Services Company, Polar Services  
7400 South Tucson Way  
Centennial, Colorado 80112-3938*

3. In Section B3, *Award Fee Schedule*, the last paragraph beginning [*actual amount for the ...*] is revised to read as follows:

*Actual amount for the Award Fee schedule will be fixed at the acceptance by the Foundation of the annual Program Plan (see Section F). The Contractor may bill and collect \_\_\_\_\_ the agreed upon award fee amount (hereinafter referred to as "Billable Fee") in proportion to the cost incurred for a particular period.*

*Effective April 1, 2002, the Contractor may bill and collect \_\_\_\_\_ of the billable fee in proportion to the cost incurred for a particular period.*

4. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 13	Subtotals
Est. Cost	\$292,734,313	\$98,802	\$34,639,056	\$327,274,567
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through August 2002.

Funds in the amount of \$194,249 are provided from the National Science Foundation Trust Fund for Comprehensive Test Ban Treaty (CTBT) related project activities identified in the FY 2002 Program Plan at WBS R-PS21-221B72 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support CTBT work, per the authority at Section F5.6 of this contract. Total NSF Trust Fund monies allocated to the CTBT activities identified herein is \$194,249.

5. In Section F11, *Property Reporting*, add the following designated Section F11.k.3:

3. *One set to:*

*National Science Foundation  
 Division of Contracts, Policy, and Oversight  
 4201 Wilson Boulevard, Room 475  
 Arlington, Virginia 22230  
 ATTN: Contracting Officer*

6. Section H2, *Key Personnel*, is revised to read as follows:

<b>Title/Position</b>	<b>Individual</b>	<b>% of Labor Effort</b>
Program Manager		100%
Director, Science Support		100%
Chief of Operations		100%
Director, Logistics		100%
Information Systems Executive		100%
South Pole Redevelopment Project Manager		100%
Facilities Engineering and Construction Executive		100%
Director, Operations		100%

7. In Section I1, *FAR Clauses Incorporated by Reference*, delete ...

52.208-8 Helium Requirements Forecast and Required Sources for Helium (June 1997)

... and substitute:

52.208-8 Required Sources for Helium and Helium Usage Data (April 2002)

52.208-9 Contractor Use of Mandatory Sources of Supply or Services (February 2002)

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES 1   3
2. AMENDMENT / MODIFICATION NO. <p style="text-align: center;">Fourteen</p>		3. EFFECTIVE DATE <p style="text-align: center;">per Block 16c</p>	4. REQUISITION / PURCHASE REQ NO. <p style="text-align: center;">OPP-0245160</p>	5. PROJECT NO. (if applicable)
ISSUED BY <p style="text-align: center;">NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</p>		CODE	7. ADMINISTERED BY (if other than Item 6)  CODE	
8. NAME AND ADDRESS OF CONTRACTOR <p style="text-align: center;">Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</p>			(✓)	9A. AMENDMENT OF SOLICITATION NO.
				9B. DATED (SEE ITEM 11)
			X	10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0000373</p>
CODE				10B. DATED (SEE ITEM 13) <p style="text-align: center;">November 1, 1999</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)**

see attached

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

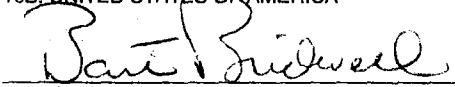
(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET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

**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
_____ <i>(Signature of person authorized to sign)</i>		 <i>(Signature of Contracting Officer)</i>	9/27/02

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020000-1647-02XX-2542	Increase: \$1,373,028
01020000-1694-02XX-2542	Increase: \$ 50,000
01020000-W594-0102-2542	Increase: \$ 114,240
01020000-W597-0102-2542	Increase: \$ 380,800
01020000-5281-05XX-2542	Increase: \$ 83,200
01020200-5140-02XX-2542	Increase: \$9,538,697
01020300-5111-02XX-2542	Increase: \$ 51,321
01020300-5112-02XX-2542	Increase: \$ 3,898
01020300-5115-02XX-2542	Increase: \$ 3,968
01020300-5116-02XX-2542	Increase: \$ 3,554
01020300-5130-02XX-2542	Increase: \$ 32,443
01020300-1629-02XX-2542	Increase: \$ 121,377

- The issuing agency's name and address, identified on the Contract Cover Page (SF 26) at Block 5 and elsewhere within this contract, is revised to read:

*National Science Foundation  
 Division of Acquisition and Cost Support  
 Contracts Branch – Section II  
 4201 Wilson Boulevard, Room 475  
 Arlington, Virginia 22230*

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 14	Subtotal
Est. Cost	\$327,274,567	\$0	\$11,422,420	\$338,696,987
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through October 2002.

Funds in the amount of \$114,240 are provided for Comprehensive Test Ban Treaty (CTBT) related project activities identified in the FY 2003 Program Plan at WBS R-PS31-221B71 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support CTBT work, per the authority at Section F5.6 of this contract. Total funding allotted to the CTBT activities identified herein is \$114,240.

Funds in the amount of \$380,800 are provided for ANSMET II related project activities identified in the FY 2003 Program Plan at WBS R-PS31-223B91 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support ANSMET II work, per the authority at Section F5.6 of this contract. Total funding allotted to the ANSMET II activities identified herein is \$380,800.

Funds in the amount of \$83,200 are provided for IceCube Research and Development project related activities identified in the FY 2003 Program Plan at WBS R-PS31-222B81 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support IceCube Research and Development project work, per the authority at Section F5.6 of this contract. Total funding allocated to the IceCube Research and Development project activities identified herein is \$83,200.

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 x 4
2. AMENDMENT / MODIFICATION NO. <b>Fifteen (15)</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>OPP-0303463</b>
6. ISSUED BY <b>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		7. ADMINISTERED BY (If other than item 6)	5. PROJECT NO. (If applicable)
8. NAME AND ADDRESS OF CONTRACTOR <b>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</b>		(3)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>
			10B. DATED (SEE ITEM 12) <b>November 1, 1998</b>

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 9 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.

(3)	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.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES such as changes in paying office, appropriation data, AS SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 49.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER Specify type of modification and authority. <b>FAR Clause 52.232-22</b>

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 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 8A and 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) <b>Bart Bridwell Contracting Officer</b>		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) <b>Bart Bridwell Contracting Officer</b>	
15B. CONTRACTOR / OFFEROR 	15C. DATE SIGNED <b>11-6-02</b>	16B. UNITED STATES OF AMERICA 	16C. DATE SIGNED
Signature of person authorized to sign		Signature of Contracting Officer	

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, revise the contract work statement, identify key personnel assigned to the contract, and provide for the reporting of leased property that is not classified as Government property. Accordingly, this contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$40,000,000
01020200-5146-02XX-2542	Increase: \$10,000,000
01020200-1296-05XX-2542	Increase: \$ 8,000,000

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Estimate	Appropriation	Mod. 15	Subtotal
Est. Cost	\$338,696,987	\$0	\$56,351,712	\$395,048,699
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through January 2003.

Funds in the amount of \$8,000,000 are provided for the South Pole Station Modernization project. These funds may be reprogrammed in accordance Section F5.6 of this contract among the projects identified in WBS 4.2 through WBS 4.5 of the FY 2003 Program Plan. However, funds allocated to the South Pole Station Modernization project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support SPSM work, per the authority at Section 5.6 of this contract. Total funding allotted to the South Pole Station Modernization project in FY 2003 is \$8,000,000. Total funding allotted to the South Pole Station Modernization project is \$35,704,190.

- Section C7.4.6.7.2, *Helicopters*, is deleted in its entirety and revised to read as follows:

*C7.4.6.7.2 Commercial Aviation*

*The Contractor shall coordinate and schedule all commercial helicopter and fixed-wing flight operations in Antarctica, and issue for use and maintain all helicopter external load gear. During the austral summer, the Contractor shall operate a scheduling office in the helicopter hanger (Building 129) to coordinate daily flight activities. The Contractor shall prepare and submit for NSF approval a test and inspection plan for all helicopter external load gear in NSF's inventory.*

4. In Section F10.1, *Schedule of Deliverables*, add the following, designated F10.1.18 and F10.1.19 respectively:

F.10.1.x	Item	No.	Date	Notes
F10.1.18	Helicopter External Load Gear Test and Inspection Plan	4	November 22, 2002	
F10.1.19	Property Acquired by Assignable Lease	1	October 15, 2003	(1)

5. In Section F11.b.1, *Equipment*, delete the following in the first paragraph:

*The Contractor shall also report on property classified as acquired through an assignable lease.*

6. In Section F11.c.1, *Real Property*, delete the following in the first paragraph:

*The Contractor shall also report on property classified as acquired through an assignable lease.*

7. Section H2, *Key Personnel*, is revised to read as follows:

Program Manager	100%
Director, Science Support	100%
Chief of Operations	100%
Director, Logistics	100%
Information Systems Executive	100%
South Pole Redevelopment Project Manager	100%
Facilities Engineering and Construction Executive	100%
Director, Operations	100%

8. Section H17, *Assignment of Subcontracts*, is revised to read as follows:

*H17. Assignment of Subcontracts*

*All subcontracts awarded by the Contractor for which the cost of the subcontract is being reimbursed to the Contractor as a direct cost (regardless of subcontract type, or property, and/or services being acquired) shall reserve NSF's rights to unilaterally assign the subcontract for administration to the Foundation or any other organization selected by NSF.*

*On or before October 15 of each year, the Contractor shall submit to the Foundation a complete inventory for all property acquired by assignable lease as defined at Section F11.a.4 as of September 30. The report shall, at a minimum, include the following data:*

- *Property description and location*
- *Acquisition date as defined at Section F11.a.3*
- *Lease term*
- *Minimum lease payment as defined at Section F11.a.9*



- *Periodic lease payment*
- *Cost to terminate*

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGE: 1 x 2
2. AMENDMENT / MODIFICATION NO. <b>Sixteen</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>N/A</b>	5. PROJECT NO. (if applicable)
ED BY <b>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		CODE	7. ADMINISTERED BY (if other than item 6)  CODE	
8. NAME AND ADDRESS OF CONTRACTOR  <b>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</b>			(3)	9A. AMENDMENT OF SOLICITATION NO.
				9B. DATED (SEE ITEM 11)
			X	10A. MODIFICATION OF CONTRACT / ORDER NO.  <b>OPP-0000373</b>
CODE      FACILITY CODE				10B. DATED (SEE ITEM 13)  <b>November 1, 1999</b>

**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)**

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

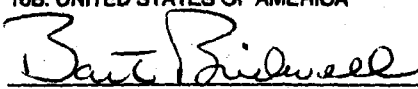
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.	
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc./SET FORTH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

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)	
		<b>Bart Bridwell; Contracting Officer</b>	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ <i>(Signature of person authorized to sign)</i>		 <i>(Signature of Contracting Officer)</i>	

The purpose of this modification to NSF Contract No. OPP-0000373 is to make administrative changes. Accordingly, this contract is hereby modified as follows:

1. In Section B2, *Contract Funding*, the total amount allotted to this contract remains unchanged.

Funds in the amount of \$335,315 for the South Pole Safety and Environment (SPSE) project provided by Modification No. Eleven are re-allotted to FY03 SPSE projects as identified in WBS R-PS34-280E~~xx~~ of the FY03 Program Plan. FY03 funds allotted for SPSE may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS R-PS34-280E~~xx~~ of the FY03 Program Plan. However, fund allotted to SPSE **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support SPSE. Total funding allotted for SPSE in FY02 is reduced to \$164,685. Total funding allotted for SPSE in FY03 is \$335,315. Total funding allotted to SPSE remains unchanged at \$1,800,000.

Funds in the amount of \$1,946,538 for the South Pole Station Modernization (SPSM) project provided by Modification No. Three are re-allotted to FY03 SPSM projects as identified in WBS R-PS34-290E~~xx~~ through WBS R-PS34-293E~~xx~~ of the FY03 Program Plan. Total funding allotted for SPSM in FY00 is reduced to \$8,257,652.

Funds in the amount of \$118,245 for SPSM provided by Modification No. Five are re-allotted to FY03 SPSM projects as identified in WBS R-PS34-290E~~xx~~ through WBS R-PS34-293E~~xx~~ of the FY03 Program Plan. Total funding allotted for SPSM in FY01 is reduced to \$7,881,755.

Funds in the amount of \$728,300 for SPSM provided by Modification No. Ten are re-allotted to FY03 SPSM projects as identified in WBS R-PS34-290E~~xx~~ through WBS R-PS34-293E~~xx~~ of the FY03 Program Plan. Total funding allotted for SPSM in FY02 is reduced to \$9,271,700.

Total funding for SPSM in FY03 is increased by \$2,793,083, from \$8,000,000 to \$10,793,083. Total funding allotted to SPSM remains unchanged at \$35,704,190. FY03 funds allotted for SPSM may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS R-PS34-290E~~xx~~ through WBS R-PS34-293E~~xx~~ of the FY03 Program Plan. However, funds allotted to SPSM **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support SPSM.

2. In Section G5, *COTR Designation and Authority*, the first paragraph is revised to read as follows:

*The Contracting Officer has designated Erick Chiang, Section Head, Office of Polar Programs, Polar Research Support Section (PH: 703/292-8032, E-mail: [echiang@nsf.gov](mailto:echiang@nsf.gov)) as the Contracting Officer's Technical Representative (COTR) under this contract.*

3. In Section G8, *NSF Property Officer Designation and Authority*, the first sentence is revised to read as follows:

*The Contracting Officer has designated R. Kevin Rorer, Division of Administrative Services, Property and Records Section (PH: 703/292-7560, E-mail: [rrorer@nsf.gov](mailto:rrorer@nsf.gov)) as the cognizant NSF Property Officer under this contract.*

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE	PAGE OF PAGES 1 x 2
2. AMENDMENT / MODIFICATION NO. <b>Seventeen</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>N/A</b>	5. PROJECT NO. (if applicable)
6. ISSUED BY <b>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		7. ADMINISTERED BY (if other than Item 6)		
8. NAME AND ADDRESS OF CONTRACTOR  <b>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</b>		(3)	9A. AMENDMENT OF SOLICITATION NO.	
CODE		9B. DATED (SEE ITEM 11)		
FACILITY CODE		<b>X</b>	10A. MODIFICATION OF CONTRACT / ORDER NO.  <b>OPP-0000373</b>	
			10B. DATED (SEE ITEM 13)  <b>November 1, 1999</b>	

**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)**

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


<b>X</b>	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:
	D. OTHER (Specify type of modification and authority)

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 or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		<b>Bart Bridwell; Contracting Officer</b>	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ <i>(Signature of person authorized to sign)</i>		 <i>(Signature of Contracting Officer)</i>	2003

0-01-152-8070

PREVIOUS EDITION UNUSABLE

30-105

**STANDARD FORM 30 (REV. 10-83)**  
Prescribed by GSA  
FAR (48 CFR) 53.243

NSF Contract No. OPP-0000373  
Modification No. Seventeen (017)

The purpose of this modification to NSF Contract No. OPP-0000373 is to make administrative changes. Accordingly, this contract is hereby modified as follows:

1. In Section G5, *COTR Designation and Authority*, the first paragraph is revised to read as follows:

*The Contracting Officer has designated Susanne LaFratta, Deputy Section Head, Office of Polar Programs, Polar Research Support Section (PH: 703/292-8032, E-Mail: [slafratt@nsf.gov](mailto:slafratt@nsf.gov)) as the Contracting Officer's Technical Representative (COTR) under this contract.*

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 * 2
2. AMENDMENT / MODIFICATION NO. <b>Eighteen (018)</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>OPP-0328207</b>
5. PROJECT NO. <i>if applicable</i>		7. ADMINISTERED BY <i>(if other than Item 6)</i>	
8. NAME AND ADDRESS OF CONTRACTOR  <b>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</b>		9A. AMENDMENT OF SOLICITATION NO.	
9B. DATED <i>(SEE ITEM 11)</i>		10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>	
9C. DATED <i>(SEE ITEM 13)</i> <b>November 1, 1999</b>		10B. DATED <i>(SEE ITEM 13)</i>	

**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)***

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

A	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> 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:
	D. OTHER <i>(Specify type of modification and authority)</i>

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

62

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020000-5281-05XX-2542	Increase: \$ 985,400
01020200-5140-02XX-2542	Increase: \$34,000,000
00010004-0237-0703-2542	Increase: \$ 125

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 18	Subtotals
Est. Cost	\$395,048,699	\$0	\$33,991,280	\$429,039,979
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through June 2003.

Funds in the amount of \$985,400 are provided for IceCube Research and Development project related activities identified in the FY 2003 Program Plan at WBS R-PS31-222B81 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support IceCube Research and Development project work, per the authority at Section F5.6 of this contract. Total funding allocated to the IceCube Research and Development project activities identified herein is \$1,068,600.

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**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

2. AMENDMENT / MODIFICATION NO. <b>Nineteen (019)</b>	3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>OPP-0321923</b>	5. PROJECT NO. (if applicable)
--	---	---	--------------------------------

6. ADMINISTERED BY (if other than Item 6) CODE <b>NATIONAL SCIENCE FOUNDATION                  DACS - CONTRACTS BRANCH, SECTION II                  4201 WILSON BOULEVARD, ROOM 475                  ARLINGTON, VA 22230</b>	7. ADMINISTERED BY (if other than Item 6) CODE
--	---

8. NAME AND ADDRESS OF CONTRACTOR  <b>Raytheon Technical Services Company, Polar Services                  7400 South Tucson Way                  Centennial, Colorado 80112-3938</b>	(X)	9A. AMENDMENT OF SOLICITATION NO.  9B. DATED (SEE ITEM 11)
CODE  FACILITY CODE	X	10A. MODIFICATION OF CONTRACT / ORDER NO.  <b>OPP-0000373</b>  10B. DATED (SEE ITEM 13)  <b>November 1, 1999</b>

**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)

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

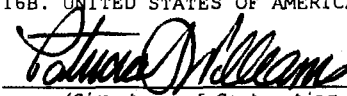
3	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN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

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)		
	<b>Patricia S. Williams; Contracting Officer</b>		
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (Signature of person authorized to sign)		 (Signature of Contracting Officer)	<b>3/21/03</b>

64



NSF Contract No. OPP-0000373  
 Modification No. Nineteen (019)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020300-5111-02XX-2542

Increase: \$ 65,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 19	Subtotal
Est. Cost	\$429,039,979	\$0	\$63,153	\$429,103,132
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through June 2003.

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE 1 OF 2 PAGES
2. AMENDMENT / MODIFICATION NO. Twenty (020)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. OPP-0321428	5. PROJECT NO. (if applicable)
ED 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 Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373
			10B. DATED (SEE ITEM 13) November 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)

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

(3) 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.

X 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:

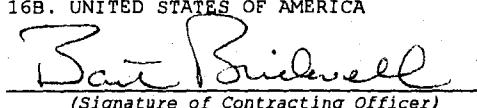
D. OTHER (Specify type of modification and authority)

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)	3/24/03

56

NSF Contract No. OPP-0000373  
 Modification No. Twenty (020)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020200-5140-02XX-2542

Increase: \$ 1,498

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 20	Subtotals
Est. Cost	\$429,103,132	\$0	\$1,455	\$429,104,587
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through June 2003.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. <p style="text-align: center;">Twenty-one (021)</p>		3. EFFECTIVE DATE <p style="text-align: center;">per Block 16c</p>	4. REQUISITION / PURCHASE REQ NO. <p style="text-align: center;">OPP-0320789</p>
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6) CODE	
ISSUED BY <p style="text-align: center;">NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</p>			
8. NAME AND ADDRESS OF CONTRACTOR <p style="text-align: center;">Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</p>		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0000373</p>
			10B. DATED (SEE ITEM 13) <p style="text-align: center;">November 1, 1999</p>
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)**

**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 10A.
X	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:
	D. OTHER (Specify type of modification and authority)

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)	3/27/03

68

NSF Contract No. OPP-0000373  
Modification No. Twenty-one (021)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, and formalize the Award Fee Adjustment for Contract Year No. Two. Accordingly, the contract is hereby modified as follows:

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

01020300-5111-02XX-2542

Increase: \$ 8,348

2. Section B3, Award Fee Schedule, is revised as follows to reflect the award fee score of \_\_\_\_\_ or \_\_\_\_\_ Contract Year No. Two:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2001 through March 31, 2002 (all WBS's)				

3. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 21	Subtotals
Est. Cost	\$429,104,587	-\$1,768,071	\$8,111	\$427,344,627
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through June 2003.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. <p style="text-align: center;">Twenty-two (022)</p>		3. EFFECTIVE DATE <p style="text-align: center;">per Block 16c</p>	4. REQUISITION / PURCHASE REQ NO. <p style="text-align: center;">OPP-0339515</p>
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6)	
6. ISSUED BY <p>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</p>			
8. NAME AND ADDRESS OF CONTRACTOR <p>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</p>		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0000373</p>
			10B. DATED (SEE ITEM 13) <p style="text-align: center;">November 1, 1999</p>

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

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

**12. ACCOUNTING AND APPROPRIATION DATA (If required)**

**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 10A.	
X	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</p>

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) <p style="text-align: center;">Patricia S. Williams; Contracting Officer</p>	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
<p>(Signature of person authorized to sign)</p>		<p>(Signature of Contracting Officer)</p>	

NSF Contract No. OPP-0000373  
Modification No. Twenty-two (022)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds, and make a correction to the total funds allotted to FY02 SPSM activities. Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$18,000,000
01020000-5281-05XX-2542	Increase: \$ 256,238
01020200-6109-02XX-2542	Increase: \$ 1,000,000
01020000-V120-0103-2542	Increase: \$ 483,486

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 22	Subtotal
Est. Cost	\$427,344,627	\$0	\$19,178,746	\$446,523,373
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through August 2003.

Funds in the amount of \$256,238 are provided for IceCube Research and Development project related activities identified in the FY 2003 Program Plan at WBS R-PS31-222B81 only. Funds allotted to these project activities shall not be reprogrammed to support other contract activities, nor shall funds be reprogrammed from other project activities to support IceCube Research and Development project work, per authority F5.6 of this contract. Total funding allotted to IceCube Research and Development activities identified herein is \$1,324,838.

Funds in the amount of \$483,486 are provided for NASA's Long Duration Balloon (LDB) project related activities identified in the FY 2003 Program Plan at WBS R-PS35-245F39 only. Funds allotted to these project activities shall not be reprogrammed to support other contract activities, nor shall funds be reprogrammed from other project activities to support NASA's Long Duration Balloon project work, per authority F5.6 of this contract. Total funding allotted to LDB activities identified herein is \$483,486.

- A calculation error resulted in an incorrect total of funds available for FY02 SPSM activities in Modification No. Sixteen, Item No. 1, 5<sup>th</sup> paragraph. This total did not take into account the \$500,000 reduction per Modification No. Eleven. The total amount of funds allotted to FY02 SPSM activities is hereby changed to \$8,771,700.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT / MODIFICATION NO. Twenty-three (023)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. OPP-0350188
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938		9A. AMENDMENT OF SOLICITATION NO.	
9B. DATED (SEE ITEM 11)		10A. MODIFICATION OF CONTRACT / ORDER NO. OPP-0000373	
10B. DATED (SEE ITEM 13) November 1, 1999		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS	
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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)			
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.			
<input checked="" type="checkbox"/> 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.			
<input type="checkbox"/> 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).			
<input type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:			
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) FAR Clause 52.232-22			
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> 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)	
15B. CONTRACTOR / OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)		Bart Bridwell; Contracting Officer _____ (Signature of Contracting Officer)	
540-01-152-8070		SEP - 3 2003	

PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243



NSF Contract No. OPP-0000373  
Modification No. Twenty-Three (023)

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020200-5140-02XX-2542	Increase: \$25,000,000
01020300-5111-02XX-2542	Increase: \$ 10,000
01020300-5115-02XX-2542	Increase: \$ 43,400
01020300-5112-02XX-2542	Increase: \$ 112,940
01020000-5281-05XX-2542	Increase: \$ 2,729,300

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 23	Subtotals
Est. Cost	\$446,523,373	\$0	\$27,102,881	\$473,626,254
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through October 2003.

Funds in the amount of \$289,800 are provided for the IceCube Research and Development project for the activities identified in the FY 2003 Program Plan at WBS R-PS31-222B81 only. Funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support IceCube Research and Development project work, per the authority at Section F5.6 of this contract. FY 2003 funding for the IceCube Research and Development project totals \$1,614,638.

Funds in the amount of \$2,439,500 are provided for the IceCube Research and Development project for the activities identified in the draft FY 2004 Program Plan at WBS R-PS46-260H00 through WBS R-PS46-H260H04, and WBS R-PS46-261H01 through WBS R-PS46-261H06. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the aforementioned FY 2004 IceCube Research and Development project sub-WBS's. However, funds allotted to these project activities **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support IceCube Research and Development project work, per the authority at Section F5.6 of this contract. FY 2004 funding for the IceCube Research and Development project totals \$2,439,500.

Total funding allotted to the IceCube Research and Development activities identified herein is \$4,054,138.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PA 1 2
2. AMENDMENT / MODIFICATION NO. <b>Twenty-four (024)</b>		3. EFFECTIVE DATE <b>per Block 16c</b>	4. REQUISITION / PURCHASE REQ NO. <b>OPP-0355305</b>
5. PROJECT NO. <i>(if applicable)</i>		6. ADMINISTERED BY <i>(if other than Item 6)</i>	
7. ISSUED BY <b>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</b>		CODE	
8. NAME AND ADDRESS OF CONTRACTOR <b>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</b>		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE		9B. DATED <i>(SEE ITEM 11)</i>	
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <b>OPP-0000373</b>
		10B. DATED <i>(SEE ITEM 13)</i> <b>November 1, 1999</b>	
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extend 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) 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) 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 amendm 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 its amendment, and is received prior to the opening hour and date specified.			
12. ACCOUNTING AND APPROPRIATION DATA <i>(if required)</i>			

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

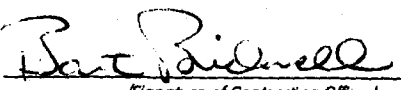
(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: <i>(Specify authority)</i> THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES <i>(such as changes in paying office, appropriation date, etc.)</i> 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 <i>(Specify type of modification and authority)</i> <b>FAR Clause 52.232-22</b>

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 <i>(Type of print)</i>		16A. NAME AND TITLE OF CONTRACTING OFFICER <i>(Type or print)</i>	
		<b>Bart Bridwell; Contracting Officer</b>	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ <i>(Signature of person authorized to sign)</i>		 <i>(Signature of Contracting Officer)</i>	SEP 30 2003

The purpose of this modification to NSF Contract No. OPP-0000373 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:

01020100-5205-02XX-2542	Increase: \$1,151,107
01020300-5130-02XX-2542	Increase: \$ 37,001
01020300-5112-02XX-2542	Increase: \$ 10,962
01020300-5111-02XX-2542	Increase: \$ 1,227
02000000-9170-02XX-2542	Increase: \$ 250,000
01020200-5140-0103-2542	Increase: \$2,620,000
01020200-5140-0102-2542	Increase: \$2,000,000
01020200-5140-02XX-2542	Increase: \$1,302,127

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 24	Subtotals
Est. Cost	\$473,626,254	\$0	\$7,156,781	\$480,783,035
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through October 2003.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. <p style="text-align: center;">Twenty-five (025)</p>		3. EFFECTIVE DATE <p style="text-align: center;">per Block 16c</p>	4. REQUISITION / PURCHASE REQ NO. <p style="text-align: center;">OPP-0404917</p>
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6) CODE	
6. ISSUED BY CODE <p>NATIONAL SCIENCE FOUNDATION DACS - CONTRACTS BRANCH, SECTION II 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230</p>			
8. NAME AND ADDRESS OF CONTRACTOR <p>Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938</p>		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. <p style="text-align: center;">OPP-0000373</p>
			10B. DATED (SEE ITEM 13) <p style="text-align: center;">November 1, 1999</p>
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			

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

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

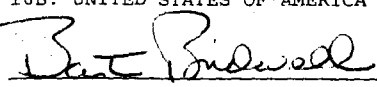
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.	
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM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

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)	11/19/03

NSF Contract No. OPP-0000373  
Modification No. Twenty-five (025)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020200-5140-02XX-2542

Increase: \$50,000,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 25	Subtotals
Est. Cost	\$480,783,035	\$0	\$48,579,062	\$529,362,097
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through January 2004.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE 1 OF 2 PAGES

2. AMENDMENT/MODIFICATION NO. Twenty-Six (026)	3. EFFECTIVE DATE See Block 16c	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable)
ISSUED BY National Science Foundation	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE

National Science Foundation  
Division of Acquisition and Cost Support  
4201 Wilson Boulevard, Room 475  
Arlington, VA 22230

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373
	X	10B. DATED (SEE ITEM 11) November 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)

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.
X	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:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the 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 or 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) Bart Bridwell, Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA <i>Bart Bridwell</i> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 2/27/04

The purpose of this modification to NSF Contract No. OPP-0000373 is to formalize the award fee adjustment for Contract Year No. Three. Accordingly, the contract is hereby modified as follows:

- Section B3, *Award Fee Schedule*, is revised as follows to reflect the award fee score of \_\_\_\_\_ for Contract Year No. Three:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2002 through March 31, 2003 (all WBS's)				

- Section B5, *Contract Funding*, is revised to formalize the award fee adjustment for Contract Year Three as follows:

Element	Existing	Adjustments	Mod 26	Subtotals
Est. Cost	\$529,362,097	-\$937,787	\$0	\$528,424,310
Billable Fee				
Award & Base Fees				
Total Allotted				

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGE  
1 2

2. AMENDMENT/MODIFICATION NO. 3. EFFECTIVE DATE 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (if applicable)  
Twenty-Seven (027) See Block 16c OPP-0427250  
6. ADMINISTERED BY (If other than Item 6) CODE

7. ADMINISTERED BY (If other than Item 6) CODE  
National Science Foundation  
Division of Acquisition and Cost Support  
4201 Wilson Boulevard, Room 475  
Arlington, VA 22230

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) (X)  
Raytheon Technical Services Company, Polar Services  
7400 South Tucson Way  
Centennial, Colorado 80112-3938  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373  
10B. DATED (SEE ITEM 11)  
November 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)

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.
X	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 the 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 or 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) Bart Bridwell, Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED 16B. UNITED STATES OF AMERICA <i>Sant Bridwell</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 3/10/04



NSF Contract No. OPP-0000373  
Modification No. Twenty-seven (027)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional funds and increase the value of the contract. Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$30,000,000
01020200-1296-05XX-2542	Increase: \$15,000,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 27	Subtotals
Est. Cost	\$528,424,310	\$0	\$43,721,156	\$572,145,466
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through May 2004.

Funds in the amount of \$15,000,000 are provided for South Pole Station Modernization project. These funds may be reprogrammed in accordance with Section F5.6 of this contract among the projects identified in WBS R-PS44-29 and all subordinate WBSs of the FY 2004 Program Plan. However, funds allocated to the South Pole Station Modernization project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other contract activities to support South Pole Station Modernization project work, per the authority of Section F5.6 of this contract. Total funding allotted to South Pole Station Modernization project in FY 2004 is \$15,000,000. Total funding allotted to the South Pole Modernization project is \$50,704,190.

3. The total value of this contract is hereby increased to \$591,530,016, per the authority of Section B1 of this contract.

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAG  
1 2

2. AMENDMENT/MODIFICATION NO. -Eight (028) D BY	3. EFFECTIVE DATE See Block 16c	4. REQUISITION/PURCHASE REQ. NO. OPP-0440581	5. PROJECT NO. (If applicable)
National Science Foundation Division of Acquisition and Cost Support 4201 Wilson Boulevard, Room 475 Arlington, VA 22230		7. ADMINISTERED BY (If other than Item 6) CODE	

B. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373
	X	10B. DATED (SEE ITEM 11) November 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.

COUNTING AND APPROPRIATION DATA (If required)

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.
X	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)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the 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 or 10A, as heretofore changed, remains unchanged and in full force and effect.

NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bart Bridwell, Contracting Officer
5B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA <i>Bart Bridwell</i> (Signature of Contracting Officer)	16C. DATE SIGNED JUN 17 2004

NSF Contract No. OPP-0000373  
Modification No. Twenty-eight (028)

The purpose of this modification to NSF Contract No. OPP-0000373 is to provide additional fund, increase the value of the contract, add Mr. Louis DeMaria as the Chief of Operations and South Pole Redevelopment Manager, and delete the section entitled "Utility Aircraft." Accordingly, the contract is hereby modified as follows:

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

01020200-5140-02XX-2542	Increase: \$25,000,000
01020200-5146-02XX-2542	Increase: \$10,000,000

- Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 28	Subtotals
Est. Cost	\$572,145,466	\$0	\$34,005,344	\$606,150,810
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through September 2004.

- The total value of this contract is hereby increased to \$626,530,016 per the authority of Section B1 of this contract.
- Revise Section H2, "Key Personnel," to add \_\_\_\_\_ as the Chief of Operations and South Pole Redevelopment Manager. Section H2 will now read as follows:

<u>Title/Position</u>	<u>Individual</u>	<u>% of Labor Effort</u>
Program Manager		100%
Director, Science Support		100%
Chief of Operations and South Pole Redevelopment Project Manager		100%
Director, Logistics		100%
Information Systems Executive		100%
Facilities Engineering and Construction Executive		100%
Director, Operations		100%

- Delete Section C7.4.6.7.1, "Utility Aircraft," in its entirety and reserve for future use per the authority of the "Changes" clause.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. Twenty-Nine (029)		3. EFFECTIVE DATE see Item 16c	4. REQUISITION/PURCHASE REQ. NO. not applicable		5. PROJECT NO. (If applicable)
6. ISSUED BY National Science Foundation Division of Contracts and Complex Agreements 4201 Wilson Boulevard, Room 475 Arlington, VA 22230		7. ADMINISTERED BY (If other than Item 6)	CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938			(X)	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
			X	10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373	
				10B. DATED (SEE ITEM 11) November 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)**

applicable

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

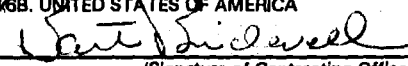
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) 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) FAR 52.217-9 -- "Option to Extend the Term of the Contract" (MAR 1989)

**E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the 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 or 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)	
		Bart Bridwell; Contracting Officer	
15b. CONTRACTOR/OFFEROR		15c. DATE SIGNED	16b. UNITED STATES OF AMERICA
(Signature of person authorized to sign)			 (Signature of Contracting Officer)
			16c. DATE SIGNED 9/23/04

84

**NSF Contract No. OPP-0000373  
Modification No. Twenty-Nine (029)**

The purpose of this modification to NSF Contract No. OPP-0000373 is to exercise the Government's option to extend the contract's performance period. Accordingly, the contract is hereby modified as follows:

1. Per Section F1, FAR Clause 52.217-9, the Government hereby exercises its option to extend the contract's period of performance. This contract, as modified, expires March 31, 2010.
2. As a result, the total value of the contract is increased by \$545,913,111, from \$626,530,016 to \$1,172,443,127.

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE 1 OF 4 PAGES
2. AMENDMENT/MODIFICATION NO. tv (030) D BY	3. EFFECTIVE DATE see Item 16c	4. REQUISITION/PURCHASE REQ. NO. OPP-0455188	5. PROJECT NO. (If applicable)	
6. ADMINISTERED BY (If other than Item 6) National Science Foundation Division of Contracts and Complex Agreements 4201 Wilson Boulevard, Room 475 Arlington, VA 22230		7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.	
CODE			9B. DATED (SEE ITEM 11)	
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373	
			10B. DATED (SEE ITEM 11) November 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 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.

ACCOUNTING AND APPROPRIATION DATA (If required)  
attached

**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.
X	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 the 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 or 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) Bart Bridwell, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>Bart Bridwell</i> (Signature of Contracting Officer)	16C. DATE SIGNED SEP 28 2004

The purpose of this modification to NSF Contract No. OPP-0000373 is to make an administrative change, provide additional funding, correct an error in Modification No. Fourteen (014), and revise the date for receipt of the FY 2005 draft program plan. Accordingly, the contract is hereby modified as follows:

1. In Block 5 of the contract cover page (SF 26) and elsewhere within the contract where the issuing contracting activity is identified, the text is revised to read as follows:

*National Science Foundation  
Division of Contracts and Complex Agreements  
4201 Wilson Boulevard, Room 475  
Arlington, VA 22230*

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

01020000-V749-0104-2542	Increase: \$ 268,000
01020000-V610-0104-2542	Increase: \$ 47,985
01020000-V761-0104-2542	Increase: \$ 3,382,022
01020000-V598-0104-2542	Increase: \$ 48,436
01020100-5205-02XX-2542	Increase: \$ 299,999
01020200-1296-05XX-2542	Increase: \$ 1,100,000
01020300-5130-02XX-2542	Increase: \$ 487,230
01020300-5112-02XX-2542	Increase: \$ 10,742
01020300-5116-02XX-2542	Increase: \$ 12,459
01020300-5111-02XX-2542	Increase: \$ 18,628
01020300-5113-02XX-2542	Increase: \$ 1,282
01020300-5115-02XX-2542	Increase: \$ 14,065
01020200-5140-02XX-2542	Increase: \$20,000,000

3. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 30	Subtotals
Est. Cost	\$606,150,810	\$0	\$24,960,746	\$631,111,556
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds will be sufficient for the performance of work through October 2004.

Funds in the amount of \$268,000 are provided for the project titled *Expansion of Efforts for the Collection of Meteorites in Antarctica (ANSMET II)* as identified in the FY 2004 Program Plan at WBS R-PS41-223B91. Funds allotted to this project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support the *Expansion of Efforts for the Collection of Meteorites in Antarctica* project, per authority of Section F5.6. Funding allotted to this project totals \$268,000. These funds are available for reimbursement of expenses through September 30, 2009.

By OPP-0000373.M14, Item No. 3, \$114,240 was provided for Comprehensive Test Ban Treaty (CTBT) activities as identified at the FY 2003 Program Plan WBS R-PS31-221B71. This is incorrect. The correct WBS is FY 2003 Program Plan WBS R-PS31-221B73. Accordingly, in the third paragraph of OPP-0000373.M14, Item No. 3, the term *WBS R-PS31-221B71* is revised to read *WBS R-PS31-221B73*. These funds are available for reimbursement of expenses through September 30, 2008. This revision is effective September 27, 2002.

Funds in the amount of \$85,240 for Comprehensive Test Ban Treaty activities provided by Modification No. Fourteen are re-allotted to Comprehensive Test Ban Treaty activities as described at FY 2004 Program Plan WBS R-PS45-246F57. Total funding for FY 2003 CTBT activities is reduced to \$29,000. These funds remain available for reimbursement of expenses through September 30, 2008.

Funds in the amount of \$47,985 are made available for the project titled *Palmer Facility for the International Monitoring Station* as identified in the FY 2004 Program Plan at WBS R-PS45-246F57. Funds allotted to this project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support this project, per authority of Section F5.6. FY 2004 funding allotted to this project totals \$47,985. These funds are available for reimbursement of expenses through September 30, 2009. Funding allotted to this project totals \$133,225.

Funds in the amount of \$3,382,022 are made available for the project titled *Balloon Launch Support in Antarctica* for project activities in FY 2004 through FY 2006. The FY 2004 Program Plan WBS is R-PS45-245F66. The Contracting Officer's Technical Representative will identify the FY 2005 and FY 2006 Program Plan WBS for this project at a later date. Funds allotted to this project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support this project, per authority of Section F5.6. Funding allotted to this project totals \$3,382,022. These funds are available for reimbursement of expenses through September 30, 2009.

Funds in the amount of \$48,436 are made available for the project titled *EOS AQUA AMSR-E* for partial support of the project activities as identified in the FY 2004 Program Plan at WBS R-PS41-220B64. These funds **shall not** be reprogrammed to support other contract activities per authority of Section F5.6. These funds are available for reimbursement of expenses through September 30, 2009.

Funds in the amount of \$1,100,000 are made available for South Pole Station Modernization (SPSM) project activities as described in the FY 2004 Program Plan at WBS R-PS44-29 and all subordinate WBSs. Funds allotted to this project **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other project activities to support SPSM, per authority of Section F5.6. Total funding allotted to SPSM in FY 2004 is \$16,100,000. Total funding allotted to SPSM is \$51,804,190. These funds are available until deobligated for reimbursement of expenses.

4. In Section F10, *Schedule of Contract Deliverables*, Paragraph F10.1 is deleted in its entirety and revised to read as follows:

*F10.1 The following schedule identifies the deliverables required by this contract. Other deliverables may be required by the Program Plan or other written documentation. Reporting format shall be developed by the Contractor and approved by NSF.*

<i>F10.1.x</i>	<i>Item</i>	<i>No.</i>	<i>Date</i>	<i>Notes</i>
<i>F10.1.1</i>	<i>Draft Program Plan for Period One</i>	<i>12</i>	<i>July 31, 2000</i>	<i>(1)(9)</i>
<i>F10.1.2</i>	<i>Final Program Plan for Period One</i>	<i>12</i>	<i>September 15, 2000</i>	<i>(1)</i>



<b>F10.1.x</b>	<b>Item</b>	<b>No.</b>	<b>Date</b>	<b>Notes</b>
F10.1.3	Quarterly Technical & Monthly Financial Reports	12	January 15, 2000	(2)(3)(4)
F10.1.4	After Operations Report	12	April 30, 2001	(1)
F10.1.5	Long-Range Plan for Period Two through Six	12	July 31, 2000	(1)
F10.1.6	Management Manuals	12	November 1, 2001	(5)
F10.1.7	Annual Report for the USAP Master Permit	12	July 31, 2000	(1)(6)
F10.1.8	Property Inventories			(7)
F10.1.9	Draft USAP IT Enterprise Strategic Plan	4	24 mon after K award	
F10.1.10	Final USAP IT Enterprise Strategic Plan	4	30 mon after K award	(8)
F10.1.11	USAP Business Enterprise Strategic Plan	4	24 mon after K award	
F10.1.12	USAP Information Architecture Study	4	24 mon after K award	
F10.1.13	USAP Mission Oper & Mgmt Sys Re-design Study	4	12 mon after K award	
F10.1.14	USAP IT Sys Life Cycle Mgmt Plan	4	14 mon after K award	
F10.1.15	USAP Technology Architecture Plan	4	18 mon after K award	
F10.1.16	USAP IT Enterprise Long-Range Implementation PI	4	18 mon after K award	(1)
F10.1.17	Technology Trends Assessment	4	14 mon after K award	(1)
F10.1.18	Helicopter External Load Gear Test and Inspection Plan	4	November 22, 2004	
F10.1.19	Property Acquired by Assignable Lease	1	October 15, 2003	(1)

- Note (1): Annually thereafter
- Note (2) Technical Reports Quarterly thereafter except in the quarter the After-Operations report is due
- Note (3): Financial Reports Monthly thereafter
- Note (4): Financial Reports to be submitted electronically
- Note (5): Reviewed and changes submitted annually
- Note (6): To be submitted electronically and available on World Wide Web
- Note (7): Per this contract's Property Reporting clause
- Note (8): Bi-annually thereafter
- Note (9): The FY 2005 Draft Program Plan is due August 27, 2004

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES  
1 2

2. AMENDMENT/MODIFICATION NO. One (031)	3. EFFECTIVE DATE see Item 16c	4. REQUISITION/PURCHASE REQ. NO. OPP-0457059	5. PROJECT NO. (If applicable)
ADMINISTERED BY National Science Foundation Division of Contracts and Complex Agreements 4201 Wilson Boulevard, Room 475 Arlington, VA 22230	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373
	X	10B. DATED (SEE ITEM 11) November 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)  
attached

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) FAR Clause 52.232-22

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the 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 or 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) Bart Bridwell, Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED
	16B. UNITED STATES OF AMERICA <i>Bart Bridwell</i> (Signature of Contracting Officer)
	16C. DATE SIGNED SEP 30

90

NSF Contract No. OPP-0000373  
Modification No. Thirty-One (031)

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

01020200-V859-0104-2542	Increase: \$	5,820
01020300-5111-02XX-2542	Increase: \$	5,079
01020300-5115-02XX-2542	Increase: \$	136
01020200-5140-02XX-2542	Increase: \$	10,762,577

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 31	Subtotals
Est. Cost	\$631,111,556	\$0	\$10,467,439	\$641,578,995
Billable Fee		—		
Award & Base Fees		—		
Total Allotted		—		

It is estimated that these funds are sufficient for the performance of work through mid-November 2004.

Funds in the amount of \$5,820 are made available for the project titled *Weddell Sea Ship Time* (NOAA CORC/Arches Program) for partial support of the project activities as identified in the FY 2004 Program Plan at WBS R-PS41-220B64. These funds **shall not** be reprogrammed to support other contract activities per authority of Section F5.6. These funds are available for reimbursement of expenses through September 30, 2009.

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF PAGES  
1 2

2. AMENDMENT/MODIFICATION NO. ty-Two (032)  
3. EFFECTIVE DATE see Item 16c  
4. REQUISITION/PURCHASE REQ. NO. OPP-0500537  
5. PROJECT NO. (If applicable)  
ISSUED BY CODE 7. ADMINISTERED BY (If other than Item 6) CODE

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)  
Raytheon Technical Services Company, Polar Services  
7400 South Tucson Way  
Centennial, Colorado 80112-3938

(X) 9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT/ORDER NO. OPP-0000373  
X 10B. DATED (SEE ITEM 11)  
November 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)  
see attached

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) FAR Clause 52.232-22

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the 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 or 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) Bart Bridwell, Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED 16B. UNITED STATES OF AMERICA <i>Bart Bridwell</i> (Signature of Contracting Officer)
	16C. DATE SIGNED DEC - 7 2004

The purpose of this modification to NSF Contract No. OPP-0000373 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 appropriations data:

14000000-5281-05XX-2542	Increase: \$ 2,492,100
14020000-1296-05XX-2542	Increase: \$12,556,600
14020000-5140-02XX-2542	Increase: \$50,000,000

2. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 31	Subtotals
Est. Cost	\$641,578,995	\$0	\$63,200,097	\$704,779,092
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through March 2005.

Funds in the amount of \$12,556,600 are made available for South Pole Station Modernization (SPSM) project activities. The appropriate WBS will be identified upon acceptance of the FY 2005 Program Plan. These funds **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other projects to support SPSM, per authority of Section F5.6. Total funding allotted to SPSM in FY 2005 is \$12,556,600. Total funding allotted to SPSM is \$64,360,790. These funds are available until deobligated for reimbursement of expenses.

Funds in the amount of \$2,492,100 are made available for IceCube Research and Development project related activities. The appropriate WBS will be identified upon acceptance of the FY 2005 Program Plan. These funds **shall not** be reprogrammed to support other contract activities, **nor shall** funds be reprogrammed from other projects to support IceCube Research and Development project activities, per authority of Section F5.6. Total funding allotted to IceCube project activities in FY 2005 is \$2,492,100. Total funding allotted to IceCube is \$6,546,238. These funds are available until deobligated for reimbursement of expenses.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. Thirty-Three (033)		3. EFFECTIVE DATE see Item 16c	4. REQUISITION/PURCHASE REQ. NO. PRSS-0531503	5. PROJECT NO. (If applicable)	
ISSUED BY Science Foundation		CODE	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, Colorado 80112-3938			(X)	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. PRSS-0000373	
			X	10B. DATED (SEE ITEM 11) November 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)

see attached

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

<input type="checkbox"/>	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.
X	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).
<input type="checkbox"/>	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 the 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 or 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)	
		Bart Bridwell, Contracting Officer	
CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>Bart Bridwell</i> (Signature of Contracting Officer)	APR 14 2005

94

**NSF Contract No. PRSS-0000373**  
**Formerly NSF Contract No. OPP-0000373**  
**Modification No. Thirty-Three (033)**

The purpose of this modification to NSF Contract No. PRSS-0000373 is to revise the contract number to reflect a change in NSF's internal accounting practice, and provide additional funds. Accordingly, the contract is hereby modified as follows:

1. In Block 2 of the contract cover page (SF 26), and elsewhere within this contract where the contract number is identified, delete the text *OPP-0000373* and substitute *PRSS-0000373*.

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

14020000-5146-02XX-2542	Increase: \$10,000,000
14020000-5140-02XX-2542	Increase: \$40,000,000

3. Section B5, *Contract Funding*, is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 33	Subtotals
Est. Cost	\$704,779,092	\$0	\$48,579,062	\$753,358,154
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that these funds are sufficient for the performance of work through August 2005.

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at

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Thirty Four(034)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0552520
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6) CODE	5. PROJECT NO. (if applicable)
6. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	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) Patricia Williams Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED 9/14/05
(Signature of person authorized to sign)		(Signature of Contracting Officer)	



**NSF Contract PRSS-0000373  
Modification No. Thirty-Four (034)**

The purpose of this modification to NSF Contract PRSS-0000373 is provide additional funds.

Accordingly, the contract is hereby modified as follows:

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

14030000-5111-02XX-2542	Increase: \$ 15,000
14030000-5112-02XX-2542	Increase \$ 111,496
14030000-5115-02XX-2542	Increase \$ 17,000
14030000-5130-02XX-2542	Increase \$ 25,700
14030000-5247-02XX-2542	Increase \$ 7,496
14020000-5140-02XX-2542	Increase \$36,289,726
14020000-5146-02XX-2542	Increase \$ 7,710,274

- Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 034	Subtotals
Est. Cost	\$753,358,154	\$0	\$44,176,196	\$797,534,350
Billable Fee				
Award & Base Fees				
Total Allotted				

- It is understood that these funds are estimated to be sufficient for the performance of work through September 30, 2005.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	DATE OF TABLE
2. AMENDMENT / MODIFICATION NO. Thirty Five (035)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0552520	5. PROJECT NO. (if applicable)
ISSUED BY CODE NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	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) Patricia S. Williams Contracting Officer
15B. CONTRACTOR / OFFEROR	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED 9/22/05
(Signature of person authorized to sign)	(Signature of Contracting Officer)

**NSF Contract PRSS-0000373  
Modification No. Thirty-Five (035)**

The purpose of this modification to NSF Contract PRSS-0000373 is to formalize the Award Fee Adjustment for Contract Year No. Four, and to adjust the distribution of operational funds added in Mod. 034.

Accordingly, the contract is hereby modified as follows:

1. Section B3, "Award Fee Schedule," is revised as follows to reflect the award fee score of for Contract Year No. Four:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2003 through March 31, 2004 (all WBS's)				

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to show distribution of funds as follows:

Element	Existing	Adjustments	Mod 034	Subtotals
Est. Cost	\$753,358,154	\$0	\$42,920,763	\$796,278,917
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section B5, Contract Funding, is revised to formalize the award fee adjustment for Contract Year Four as follows:

Element	Existing	Adjustments	Mod 035	Subtotals
Est. Cost	\$797,534,350	-\$1,203,417	\$0	\$796,330,933
Billable Fee				
Award & Base Fees				
Total Allotted				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Thirty Six(036)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0556002
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than item 6) CODE	5. PROJECT NO. (if applicable)
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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 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) Patricia S. Williams Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)		 (Signature of Contracting Officer)
	30-105	16C. DATE SIGNED 9/30/05

**NSF Contract PRSS-0000373  
Modification No. Thirty-Six (036)**

The purpose of this modification to NSF Contract PRSS-0000373 is to: provide additional funds, to correct the Award Fee adjustment accomplished in Mod 035, and to make administrative changes in Section G5.

Accordingly, the contract is hereby modified as follows:

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

14040000-5187-02XX-2542	Increase: \$ 250,000
14020000-5140-02XX-2542	Increase \$ 633,698
14020000-5146-02XX-2542	Increase \$ 3,686,159
14000000-T218-0105-2542	Increase \$ 353,720
14030000-5112-02XX-2542	Increase \$ 14,405
14030000-5116-02XX-2542	Increase \$ 5,900
14030000-5130-02XX-2542	Increase \$ 15,953

2. Section B5, Contract Funding, is revised to correct the award fee adjustment for Contract Year Four (Mod 035) as follows:

Element	Existing	Adjustments	Mod 035	Subtotals
Est. Cost	\$796,278,917	-\$1,203,417	\$0	\$795,075,500
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 036	Subtotals
Est. Cost	\$795,075,500	\$0	\$4,815,374	\$799,890,874
Billable Fee				
Award & Base Fees				
Total Allotted				

4. In Section G5, *COTR Designation and Authority*, the first paragraph is revised to read as follows:

*The Contracting Officer has designated Brian Stone, Deputy Manager, Office of Polar Programs, Polar Research Support Section (PH: 703/292-8032, E-Mail: [bstone@nsf.gov](mailto:bstone@nsf.gov)) as the Contracting Officer's Technical Representative (COTR) under this contract.*

5. It is understood that these funds are estimated to be sufficient for the performance of work through October 30, 2005.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Thirty Seven(037)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0601518
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		5. PROJECT NO. (if applicable)	7. ADMINISTERED BY (if other than Item 6) CODE
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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 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) Patricia S. Williams 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 10/14/05

**NSF Contract PRSS-0000373  
Modification No. Thirty-Seven (037)**

The purpose of this modification to NSF Contract PRSS-0000373 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 appropriation data:

14020000-5140-02XX-2542	Increase \$30,000,000
14030000-5113-02XX-2542	Increase \$ 11,042
14030000-5111-02XX-2542	Increase \$ 79,235
14010000-5205-02XX-2542	Increase \$ 265,121
14010000-5280-02XX-2542	Increase \$ 8,750

- Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 037	Subtotals
Est. Cost	\$799,890,874	\$0	\$29,479,755	\$829,370,629
Billable Fee				
Award & Base Fees				
Total Allotted				

- It is understood that these funds are estimated to be sufficient for the performance of work through November 30, 2005.

**[balance of page intentionally left blank]**



<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Thirty Eight (038)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0608767
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6) CODE	
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230			
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
CODE FACILITY CODE			10B. DATED (SEE ITEM 13) November 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 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) Patricia S. Williams Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED 12/20/05
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

**NSF Contract PRSS-0000373  
Modification No. Thirty-Eight (038)**

The purpose of this modification to NSF Contract PRSS-0000373 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 appropriation data:

14000000-015F-05XX-2542	Increase \$ 3,208,100
14020000-1296-05XX-2542	Increase \$ 8,597,100

- Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 038	Subtotals
Est. Cost	\$829,370,629	\$0	\$11,461,359	\$840,831,988
Billable Fee				
Award & Base Fees				
Total Allotted				

- It is understood that these funds are estimated to be sufficient for the performance of work through December 31, 2005.

**[balance of page intentionally left blank]**

2. AMENDMENT/MODIFICATION NO. Thirty-Nine (039)	3. EFFECTIVE DATE See Item 16c	4. REQUISITION/PURCHASE NO.	5. PROJECT NO. (If applicable)
--	-----------------------------------	-----------------------------	--------------------------------

ISSUED BY National Science Foundation Attn: Patricia S. Williams Mail Code: DACS Division of Acquisition & Cooperative Support 4201 Wilson Boulevard, Room 475 Arlington, VA 22230	CODE	7. ADMINISTERED BY (If other than Item 6) See Item 6	CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and Zip Code) Raytheon Technical Services Company, Polar Services 7400 South Tucson Way Centennial, CO 80112-3938  Attn: Lee Anne Hess	<input type="checkbox"/>	9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
	<input checked="" type="checkbox"/>	10A. MODIFICATION OF CONTRACT/ORDER NO. PRSS-0000373	
		10B. DATED (SEE ITEM 13) November 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 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)  
n/a

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

- |                                     |   |  |  |
|-------------------------------------|---|--|--|
| <input type="checkbox"/>            | 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. |
| <input type="checkbox"/>            | 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).                |
| <input checked="" type="checkbox"/> | C | THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:<br>Federal Acquisition Regulation Part 52.232-22 "Changes--Cost-Reimbursement" |  |
| <input type="checkbox"/>            | D | OTHER (Specify type of modification and authority)   |  |

**E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 copies to the issuing office.**

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

See page 2

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)	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
BY _____ (Signature of person authorized to sign)		BY <u>Patricia S. Williams</u> (Signature of Contracting Officer)	01/31/06

**NSF Contract PRSS-0000373  
Modification No. Thirty-Nine (039)**

14. Description of Amendment/Modification (cont.)

The purpose of this modification to NSF Contract PRSS-0000373 is to:

- a. establish two key personnel positions; and
- b. approve the RPSC Fiscal Year 2006 Program Plan at a level of \$143,920,081

Therefore the following items will be revised as follows:

- A. Section H – “Special Contract Requirements”
  - i. H.2. KEY PERSONNEL

This section is revised to add the following positions:

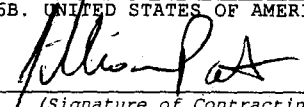
<u>Title</u>	<u>Individual</u>	<u>Percent of Labor Effort</u>
Medical Director		100%
Environmental Health & Safety Director		100%

- B. Section F – “Deliveries or Performance”
  - i. F.2. PROGRAM PLAN

This plan's approval does not: (1) constitute a determination of the allowability of any costs under this contract; (2) authorize incurring cumulative contract costs in excess of the funds allocated to NSF Contract No. ARC-0520837 per the clause titled Limitation of Funds; or (3) authorize expenditures of otherwise restricted funds for purposes other than those set forth in the contract and its modifications.

- C. All other terms and conditions remain unchanged and in effect.

(End of Modification)

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty(040)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO.
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6)	5. PROJECT NO. (if applicable)
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 1, 1999
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, <input type="checkbox"/> 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 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 <input checked="" type="checkbox"/> is not, <input type="checkbox"/> 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.			
15A. NAME AND TITLE OF SIGNER (Type of print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Jillian Pate Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)			1 Mar '06
		(Signature of Contracting Officer)	

**NSF Contract PRSS-0000373  
Modification No. Forty (040)**

The purposes of this modification to NSF Contract PRSS-0000373 are:

1. Update the "Key Personnel" clause
2. 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:

14020000-5140-02XX-2542

Increase \$ 40,000,000

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 040	Subtotals
Est. Cost	\$840,831,988	\$0	\$38,834,951	\$879,666,939
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section H, "Special Contract Requirements," subsection H.2, "Key Personnel," is updated as follows:

Title	Individual	Individual - Current	Percent of Labor Effort
Program Manager			100%
Environmental, Health & Safety Directo.			100%
Medical Director			100%
Director Science Support			100%
Chief of Operations and South Pole Redevelopment Project Manager			100%
Chief of Operations			
South Pole Redevelopment Project Manager/PMO Manager			
Director Logistics			100%
Director Information Systems			100%
Director FEMC			100%
Operations Director			100%

4. It is understood that these funds are estimated to be sufficient for the performance of work through June 2006.
5. All other terms and conditions remain unchanged and in effect.

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT / MODIFICATION NO. Forty-one(041)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO.
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6) CODE	
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230			
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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)

See attached

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

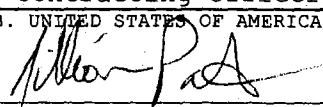
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, 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) Jillian Pate Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)	30-105	 (Signature of Contracting Officer)	9 June '06



**NSF Contract PRSS-0000373  
Modification No. Forty-one (041)**

The purposes of this modification to NSF Contract PRSS-0000373 are:

1. Update the "Key Personnel" clause
2. Provide additional funds
3. Reduce the program manager WBS (R-PS60-201) by \$200,000 to reflect the removal of RBI payments from the annual program plan.

Accordingly, the contract is hereby modified as follows:

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

14020000-5140-02XX-2542 Increase \$ 35,000,000

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 041	Subtotals
Est. Cost	\$879,666,939	\$0	\$33,980,583	\$913,647,522
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section H, "Special Contract Requirements," subsection H.2, "Key Personnel," is updated as follows:

Title	Individual	Individual - Current	Percent of Labor Effort
Program Manager			100%
Environmental, Health & Safety Director			100%
Medical Director			100%
Director Science Support			100%
Chief of Operations and South Pole Redevelopment Project Manager			100%
Chief of Operations			
South Pole Redevelopment Project Manager/PMO Manager			
Director Logistics			100%
Director Information Systems			100%
Director FEMC			100%
Operations Director			100%

4. It is understood that these funds are estimated to be sufficient for the performance of work through August 2006.

5. All other terms and conditions remain unchanged and in effect.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty-two (042)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO.
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than Item 6) CODE	
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938	
9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373		10B. DATED (SEE ITEM 13) November 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)  
See attached

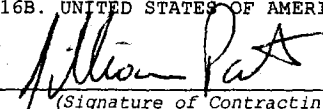
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input checked="" type="checkbox"/>	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) Jillian Pate Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA 	16C. DATE SIGNED 10 Sept '86
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

**NSF Contract PRSS-0000373  
Modification No. Forty-two (042)**

The purpose of this modification to NSF Contract PRSS-0000373 are:

1. 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:

14020000-5140-02XX-2542	Increase \$ 11,979,998
14020000-5146-02XX-2542	Increase \$ 25,751,496
14020000-T441-0106-2542	Increase \$ 40,100
14020000-T305-0106-2542	Increase \$ 61,107
14020000-1789-40XX-2542	Increase \$ 67,647
14020000-5140-02XX-2542	Increase \$ 100,000
14040000-5187-02XX-2542	Increase \$ 4,862,507
14030000-5113-02XX-2542	Increase \$ 192,018
14030000-5112-02XX-2542	Increase \$ 10,000
14030000-5111-02XX-2542	Increase \$ 91,285
14030000-5130-02XX-2542	Increase \$ 162,111

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 042	Subtotals
Est. Cost	\$913,647,522	\$0	42,056,572	\$955,704,094
Billable Fee				
Award & Base Fees				
Total Allotted				

3. All other terms and conditions remain unchanged and in effect.

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty-three (043)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO.	5. PROJECT NO. (if applicable)
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230	CODE	7. ADMINISTERED BY (if other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938	(X)	9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
	X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373	
CODE	FACILITY CODE	10B. DATED (SEE ITEM 13) November 1, 1999	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, <input type="checkbox"/> 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 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 <input checked="" type="checkbox"/> is not, <input type="checkbox"/> 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)	
		Jillian Pate Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		Jillian Pate (Signature of Contracting Officer)	18 Sept '06
NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE	30-105	STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

**NSF Contract PRSS-0000373  
Modification No. Forty-three (043)**

The purpose of this modification to NSF Contract PRSS-0000373 is:

1. To correct the approved funding amount in Mod 039 from \$143,920,081 to \$164,062,482.
2. All other terms and conditions remain unchanged and in effect.

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty-four (044)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO.
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		5. PROJECT NO. (if applicable)	
CODE		7. ADMINISTERED BY (if other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

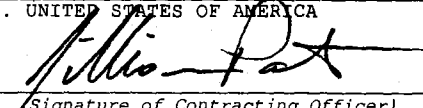
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, 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) Jillian Pate 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)	28 Spt '06

**NSF Contract PRSS-0000373**  
**Modification No. Forty-four (044)**

The purposes of this modification to NSF Contract PRSS-0000373 are:

1. Provide additional funds
2. Approve a FY 2007 Funding Limit until the Final Program Plan can be approved

Accordingly, the contract is hereby modified as follows:

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

14020000-5140-02XX-2542	Increase	\$	1,120,950
14000000-5284-02XX-2542	Increase	\$	29,700
14020000-T659-0106-2542	Increase	\$	294,948
14020000-T713-0106-2542	Increase	\$	551,978
14030000-5111-02XX-2542	Increase	\$	21,528
14030000-5112-02XX-2542	Increase	\$	54
14030000-5116-02XX-2542	Increase	\$	1,098
14020000-T702-0106-2542	Increase	\$	310,527

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 044	Subtotals
Est. Cost	\$955,704,094	\$0	2,262,896	\$957,966,990
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section F - "Deliveries or Performance," Subsection F.2, "Program Plan"

In lieu of a Program Plan Approval, the NSF authorizes RPSC a funding limit NTE \$144,377,002 until such time as the final Annual Program Plan for Fiscal Year 2007 can be approved.

4. All other terms and conditions remain unchanged and in effect.

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty-five (045)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. PRSS-0653762	5. PROJECT NO. (if applicable)
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

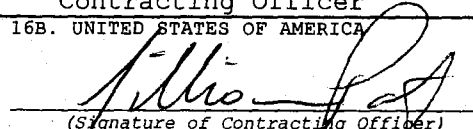
<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	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) Jillian Pate 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  28 Sept. 06

**NSF Contract PRSS-0000373  
Modification No. Forty-five (045)**

The purpose of this modification to NSF Contract PRSS-0000373 is:

1. 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:

14030000-5115-02XX-2542	Increase \$	171
14040000-5187-02XX-2542	Increase \$	1,813
14040000-5188-02XX-2542	Increase \$	51,429

2. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 045	Subtotals
Est. Cost	\$957,966,990	\$0	\$51,857	\$958,018,847
Billable Fee				
Award & Base Fees				
Total Allotted				

3. All other terms and conditions remain unchanged and in effect.

**[balance of page intentionally left blank]**

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT / MODIFICATION NO. Forty-six (046)		3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. AIL-0701614
ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6) CODE	5. PROJECT NO. (if applicable)
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	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) Jillian Pate Contracting Officer	
15B. CONTRACTOR / OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED NOV 6 2006
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

NSN 7540-01-152-8070  
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

**NSF Contract PRSS-0000373  
Modification No. Forty-Six (046)**

The purpose of this modification to NSF Contract PRSS-0000373 is to: provide additional funds, to formalize the Award Fee adjustment for Contract Year 5, to make administrative changes in Section F11, and to approve the Final FY07 Program Plan in the amount of \$150,719,901.

Accordingly, the contract is hereby modified as follows:

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

14020000-5140-02XX-2542

Increase \$ 30,000,000

2. Section B3, "Award Fee Schedule," is revised as follows to reflect the award fee score of for Contract Year Five (to include

!:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2004 through March 31, 2005 (all WBS's)				

Section B5, Contract Funding, is revised to formalize the award fee adjustment for Contract Year Four as follows:

Element	Existing	Adjustments	Mod 046	Subtotals
Est. Cost	\$958,018,847	-\$0	\$23,479,372	981,498,219
Billable Fee				
Award & Base Fees				
Total Allotted				

3. Section B, "Supplies/Services and Prices/Costs," subsection B.8, "(Incremental) Contract Funding," is revised to provide additional funds as follows:

Element	Existing	Adjustments	Mod 046	Subtotals
Est. Cost	\$958,018,847	-\$0	\$23,479,372	981,498,219
Billable Fee				
Award & Base Fees				
Total Allotted				

4. Section F, "Deliveries or Performance," Subsection F5 "Program Plan." The Fiscal Year 2007 Annual Program Plan is hereby approved in the amount of \$150,719,901.

This plan's approval does not: (1) constitute a determination of the allowability of any costs under this contract; (2) authorize incurring cumulative contract costs in excess of the funds allocated to NSF Contract No. PRSS-000373 per the clause titled Limitation of Funds; or (3) authorize expenditures of otherwise restricted funds for purposes other than those set forth in the contract and its modifications.

5. Section F, "Deliveries or Performance," Subsection F11, "Property Reporting," paragraph "f" is revised to read as follows:

f. FRPP

In lieu of completing GSA Form 1166 "Quarterly Report of Real Property Owned or Leased by the United States," the contractor will be required to update the FRPP website by October 15, of each year. The FRPP website must be updated with all of the information normally found on the GSA Form 1166 and shall be complete as of September 30 of the current year.

6. It is understood that these funds are estimated to be sufficient for the performance of work through December 31, 2006.

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF  
1 2

2. AMENDMENT / MODIFICATION NO. Forty-seven (047)  
3. EFFECTIVE DATE per Block 16c  
4. REQUISITION / PURCHASE REQ NO. AIL-0715911  
5. PROJECT NO. (if applicable)

6. ISSUED BY NATIONAL SCIENCE FOUNDATION  
Division of Contracts and Complex Agreements  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230  
7. ADMINISTERED BY (if other than Item 6)

8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services  
7400 South Tuscan Way  
Centennial, CO 80112-3938  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373  
10B. DATED (SEE ITEM 13) November 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 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

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) Patricia S. Williams Contracting Officer  
15B. CONTRACTOR / OFFEROR  
15C. DATE SIGNED  
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Patricia S. Williams Contracting Officer  
16B. UNITED STATES OF AMERICA  
16C. DATE SIGNED JAN 26 2000  
(Signature of person authorized to sign) (Signature of Contracting Officer)

126

**NSF Contract PRSS-0000373  
Modification No. Forty-Seven (047)**

I. The purpose of this modification to NSF Contract PRSS-0000373 is to provide incremental funding.

II. The contract is modified as follows:

A. The following accounting and appropriation data is provided for Block 12 of Standard Form 30 (the front page of this modification):

14020000-5140-02XX-2542

Increase \$35,000,000

B. Section B, Supplies or Services and Prices/Costs, paragraph 5, Contract Funding, is revised to provide incremental funding as follows:

Element	Existing	Adjustments	Mod 047	Subtotals
Est. Cost	\$981,498,219	\$0	\$31,600,622	\$1,013,098,841
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that funds for operations are sufficient for the performance of work through April 30, 2007

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<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT / MODIFICATION NO. Forty-eight (048)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. AIL-0715911	5. PROJECT NO. (if applicable)
6. ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE		9B. DATED (SEE ITEM 11)	
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
		10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	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

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) Patricia S. Williams Contracting Officer	
15B. CONTRACTOR / OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  <i>Patricia S. Williams</i> (Signature of Contracting Officer)	16C. DATE SIGNED JAN 29 2007



**NSF Contract PRSS-0000373  
Modification No. Forty-Seven (048)**

I. The purpose of this modification to NSF Contract PRSS-0000373 is to provide incremental funding.

II. The contract is modified as follows:

A. The following accounting and appropriation data is provided for Block 12 of Standard Form 30 (the front page of this modification):

14020000-1296-05XX-2542	Increase \$ 2,500,000
14020000-005F-05XX-2542	Increase \$ 1,000,000

B. Section B, Supplies or Services and Prices/Costs, paragraph 5, Contract Funding, is revised to provide incremental funding as follows:

Element	Existing	Adjustments	Mod 047	Subtotals
Est. Cost	\$1,013,098,841	\$0	\$3,399,378	\$1,016,498,219
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that funds for the South Pole Station Modernization project are sufficient through June 30, 2007. It is estimated that funds for the Icecube neutrino detector project are sufficient through July 31, 2007.

**[Balance of page intentionally left blank.]**

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE OF  
1 PAGES 2

2. AMENDMENT / MODIFICATION NO. Forty-nine (049)  
3. EFFECTIVE DATE per Block 16c  
4. REQUISITION / PURCHASE REQ NO. AIL-0715911  
5. PROJECT NO. (if applicable)

ISSUED BY NATIONAL SCIENCE FOUNDATION  
Division of Contracts and Complex Agreements  
4201 WILSON BOULEVARD, ROOM 475  
ARLINGTON, VA 22230  
7. ADMINISTERED BY (if other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services  
7400 South Tuscan Way  
Centennial, CO 80112-3938  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373  
10B. DATED (SEE ITEM 13) November 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 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 43.103 (a) (3)

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)  
Karen Millisor Contracting Officer  
15B. CONTRACTOR / OFFEROR 15C. DATE SIGNED 16B. UNITED STATES OF AMERICA 16C. DATE SIGNED  
Karen Millisor 4/6/2007  
(Signature of person authorized to sign) (Signature of Contracting Officer)

**NSF Contract PRSS-0000373  
Modification No. Forty-Nine (049)**

- I. The purpose of this modification to NSF Contract PRSS-0000373 is to:
- A. Formalize the Award Fee adjustment for Contract Year 6;
  - B. Update Key Personnel Clause; and
  - C. Update Section I clause for Duty Free Entry.

II. The contract is specifically modified as follows:

A. Section B, Supplies or Services and Prices/Costs, subsection B3, Award Fee Schedule, is revised as follows to reflect the award fee score of \_\_\_\_\_ for Contract Year Six:

Period	Fee Bearing Cost	Base Fee	Maximum Award Fee	Award Fee Earned
April 1, 2005 through March 31, 2006 (all WBS's)				

B. Section H, Special Contract Requirements, subsection H2, Key Personnel, is updated as follows:

Title	Individual	Percent of Labor Effort
Program Manager		100%
Director of Operations		100%
Project Management Office (PMO) Manager		100%
Medical Director		100%
Environmental, Health & Safety Director		100%
Director Science Support		100%
Director Logistics		100%
Director FEMC		100%
Director Information Technology and Communications		100%
South Pole Redevelopment Project Manager		100%

C. Section I, Contract Clauses, is modified to include "FAR 52.225-8, Duty Free Entry (Feb 2000)" and delete reference to "FAR 52.225-10, Duty Free Entry (Apr 1984)".

**[Balance of page intentionally left blank.]**

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 5
AMENDMENT / MODIFICATION NO. Fifty (050)	3. EFFECTIVE DATE per Block 16c	4. REQUISITION / PURCHASE REQ NO. AIL-0738022	5. PROJECT NO. (if applicable)
6. ISSUED BY NATIONAL SCIENCE FOUNDATION Division of Contracts and Complex Agreements 4201 WILSON BOULEVARD, ROOM 475 ARLINGTON, VA 22230		7. ADMINISTERED BY (if other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR Raytheon Technical Services Company, Polar Services 7400 South Tuscan Way Centennial, CO 80112-3938		(X)	9A. AMENDMENT OF SOLICITATION NO.
CODE			9B. DATED (SEE ITEM 11)
FACILITY CODE		X	10A. MODIFICATION OF CONTRACT / ORDER NO. PRSS-0000373
			10B. DATED (SEE ITEM 13) November 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.

<input type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER 10A.
<input type="checkbox"/>	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).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) FAR 52.232-22 Limitation of Funds and FAR 43.103 (a) (3)

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) Jeanne Hill-Jurik Manager, Program Contracts	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Karen Millisor Contracting Officer
15B. CONTRACTOR / OFFEROR  <i>Jeanne Hill-Jurik</i> (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA  <i>Karen Millisor</i> (Signature of Contracting Officer)
15C. DATE SIGNED 7 June 2007	16C. DATE SIGNED 6/7/2007

NSN 7540-01-152-8070

30-105

STANDARD FORM 30 (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243

PREVIOUS EDITION UNUSABLE

**NSF Contract PRSS-0000373  
Modification No. Fifty (050)**

- I. The purpose of this modification to NSF Contract PRSS-0000373 is to:
- A. Add incremental funding in the amount of \$33,400,000;
  - B. Update Section B of the contract as follows:
    - i. Correct Modifications 046 to reflect the correct Award Fee Payout for Contract Year (CY) 05
    - ii. As a result of the above correction to Modification 046, correct Modifications 047- 049 to reflect flow down changes to estimated cost and billable fee in Paragraph B5, Contract Funding;
    - iii. The subject modification (050) will indicate the Award Fee Payout for CY 06; and,
    - iv. Change reference from "B8" to "B5" in Modifications 034, 035, 036, 037, 038, 040, 041, 042, 044, 045, and 046.
  - C. Update Section G, paragraph 8, NSF Property Officer Designation and Authority.

II. The contract is specifically modified as follows:

A. Standard Form 30 is modified as follows:

The following accounting and appropriation data is provided for Block 12 of Standard Form 30 (the front page of this modification):

14020000-5140-02XX-2542	Increase \$ 32,800,000
14000000-005F-05XX-2542	Increase \$ 600,000

B. SECTION B – SUPPLIES OR SERVICES AND PRICE/COSTS

i. Modification 046, paragraph B8, (Incremental) Contract Funding is deleted in its entirety. Modification 046, paragraph B5, Contract Funding, is being corrected to reflect award fee payout for CY 05 and to correct Estimated Cost and Billable Fee amounts. Replace Modification 046, paragraph B5, Contract Funding, with the following:

Element	Existing	Adjustments	Mod 046	Subtotals
Est. Cost	\$958,018,847	-\$1,168,909	\$28,873,917	\$985,723,855
Billable Fee				
Award & Base Fees				
Total Allotted				

It is understood that these funds are estimated to be sufficient for the performance of work through December 31, 2006.

ii. Modification 047, paragraph B5, Contract Funding, is being modified to reflect the flow-down corrections from Modification 046. Replace Modification 047, paragraph B5, Contract Funding, with the following:

Element	Existing	Adjustments	Mod 047	Subtotals
Est. Cost	\$985,723,855	\$0	\$31,600,622	\$1,017,324,477
Billable Fee				
Award & Base Fees				
<b>Total Allotted</b>				

It is estimated that funds for operations are sufficient for the performance of work through April 30, 2007

iii. Modification 048, paragraph B5, Contract Funding, is being modified to reflect the flow-down corrections from Modification 046. Replace Modification 048, paragraph B5, Contract Funding, with the following:

Element	Existing	Adjustments	Mod 048	Subtotals
Est. Cost	\$1,017,324,477	\$0	\$3,399,378	\$1,020,723,855
Billable Fee				
Award & Base Fees				
<b>Total Allotted</b>				

It is estimated that funds for the South Pole Station Modernization project are sufficient through June 30, 2007. It is estimated that funds for the Icecube neutrino detector project are sufficient through July 31, 2007.

- iv. Modification 049 is being modified to add paragraph B5, Contract Funding, to reflect the flow-down corrections from Modification 046 and the award fee payout for CY 06. Add paragraph B5, Contract Funding to Modification 049 as follows:

Element	Existing	Adjustments	Mod 049	Subtotals
Est. Cost	\$1,020,723,855	-\$839,036	\$0	\$1,019,884,819
Billable Fee				
Award & Base Fees				
Total Allotted				

- v. Modification 050 (the subject modification), shall revise Paragraph B5, Contract Funding, to add incremental funding in the amount of \$33,400,000 as follows:

Element	Existing	Adjustments	Mod 050	Subtotals
Est. Cost	\$1,019,884,819	-\$0	\$32,439,782	\$1,052,324,601
Billable Fee				
Award & Base Fees				
Total Allotted				

It is estimated that \$32,800,000 of the funds provided by this modification for the operations of the USAP are sufficient through August, 2007. It is estimated that \$600,000 of the funds provided by this modification for the Icecube neutrino detector project are sufficient through September 2007.

- vi. Further corrections to Section B include changing reference from paragraph "B8 (Incremental) Contract Funding" (erroneously put in Modifications 034, 035, 036, 037, 038, 040, 041, 042, 044, 045) to paragraph "B5 Contract Funding". As stated above, "B8" and the table associated with it in Modification 046 is deleted in its entirety.

C. SECTION G – CONTRACT ADMINISTRATION DATA is modified to reflect a change to paragraph G8, NSF Property Officer Designation and Authority, to designate a new property officer, as follows:

#### G8. NSF PROPERTY OFFICER DESIGNATION AND AUTHORITY

The Contracting Officer hereby designated Teresa Pierce, Division of Administrative Services, Property and Records Section (phone: 703- 292-7555; e-

mail: [tpierce@nsf.gov](mailto:tpierce@nsf.gov)) as the cognizant NSF Property Officer. The Property Officer may issue direction regarding the accountability of Government property (including its disposition). 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.

III. All other terms and conditions remain unchanged.

**[Balance of page intentionally left blank.]**