

<b>AMENDMENT OF SOLICITATION/ MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. <b>8</b>	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. N/A	5. PROJECT NO. (If applicable)
6. ISSUED BY NASA Lyndon B. Johnson Space Center Attn : Bob Derr/BJ33 2101 NASA Parkway Houston, TX 77058		7. ADMINISTERED BY (If other than Item 6) CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code)

**TO PROSPECTIVE OFFERORS**

Project: Building 16N, High Bay Roof

CODE	FACILITY CODE
<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. NNJ05096224R	9B. DATED (SEE ITEM 11) April 7, 2005
<input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO.	10B. DATED (SEE ITEM 13)

**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. 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 ACKNOWLEDGEMENT 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.(x)**

<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 type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
<input type="checkbox"/> 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 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) Robert L. Derr, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>Robert L. Derr</u> (Signature of Contracting Officer)	16C. DATE SIGNED 6/10/2005

## Roofing IDIQ

The purpose of this amendment is to:

**1. Provide answers to questions from potential offerors (Attachment 1) (19 pages).**

**2. Changes to Solicitation:**

a. Remove Page B-1 and replace with the attached revised Page B-1. Changes are underlined.

b. Remove Page B-2 and replace with the attached revised Page B-2. Changes are underlined.

c. Remove Page H-6 and replace with the attached revised Page H-6. Changes are underlined.

d. Remove existing Page 2 of Model Contract (Bid Schedule) and replace with the attached revised Bid Schedule

e. Remove Page LII-4 and replace with the attached revised Page LII-4. Changes are underlined.

f. Remove Page LII-7 and replace with the attached revised Page LII-7. Changes are underlined.

g. Remove existing COD Mission Update Page from Model Contract and replace with the attached revised COD Mission Update.

**3. The date for Receipt of Proposals is changed from June 16, 2005 to "June 27, 2005".**

## **QUESTIONS AND ANSWERS**

### **Question 1**

It is assumed that at least 25% of the metal decking is corroded and requires replacement. Who will make the determination if it needs replacement and to what extent. If some of the metal decking has to be replaced, this is going to expose the interior of the building and compromise the labs and equipment within. Since we were unable to see the interior, who is going to be responsible to protect the said labs and equipment?

### **Answer 1**

**After exposure has been made, corrosion will need to be removed and then the decking callipered to verify that it is within 15% of the original thickness. NASA's construction supervision team should be tasked with this requirement. If decking has to be replaced, overlaying existing decking with new decking and mechanically fastening to joists below or surrounding decking in good shape would be the preferred method. The contractor will be responsible for protecting spaces below.**

### **Question 2**

Who will test the lightweight deck?

### **Answer 2**

**Pull test to be conducted by contractor in presence of NASA's construction supervision team.**

### **Question 3**

We would like to suggest a light weight tapered insulation system in lieu of the light weight concrete cap as depicted on drawings. This would insure not exposing the interior of the building and its contents.

### **Answer 3**

**Bid the depicted LIC replacement as specified.**

### **Question 4**

Do you a list of the NASA approved trade companies such as electrical, scaffolding, safety equipment, dumpsters, asbestos/lead removal, sheet metal, etc. that can be accessed by the General Contractors?

### **Answer 4**

No, contractors are responsible for finding sub contractors for this type work.

### **Question 5**

We are of the opinion that the asphalt Type III called for on the plans should be Type IV.

### **Answer 5**

**Asphalt should be Type IV.**

### **Question 6**

We understand, as per Larry Shelmire's comments while we were making the on-site inspection, that all antennas will be removed and reinstalled by NASA personnel. We need that to be verified.

**Answer 6**

**NASA personnel will be responsible for removal and reinstallation of their antennas. Contractor will have to coordinate access.**

**Question 7**

We would like to know which of the three roofing material manufacturers listed was used on the lower section of Bldg. 16 completed last year.

**Answer 7**

**The three listed were not used on lower section of bldg. 16. The manufacturer was Johns-Manville.**

**Question 8**

Cover page says "NORTH ROOF BASE BID: NEW CAP SHEET" "ALTERNATE: NEW ROOF SYSTEM". However, Project Description section 01019 describes base bid being new roof system with alt no. 1 being a new lightning protection system.

**Answer 8**

**Project Base Bid should be a new roof system except for the North portion between column lines "S" and "V" which is to have gravel ballast removed and a new granulated cap sheet installed. Provide alternate bids for new roof system in lieu of new cap sheet (between column lines "S" and "V") and for new lightning protection system. See Revised Bid Schedule provided with this amendment.**

**Question 9**

Section 03525 Insulating Concrete Decks Paragraph 2.6 Roof System Guarantee. This specification requires a 20 year warranty for both the light weight concrete and roof membrane. This warranty cannot be given for an existing light weight concrete deck or partial replacement of the light weight concrete deck. It is only available for the entire new poured roof system. If this warranty is required then the entire light weight concrete deck has to be removed and reinstalled. Is this required or should the 50% allowed be estimated.

**Answer 9**

**Warranty is to apply to the roof membrane only.**

**Question 10**

Section 02220 Demolition - Are there any particular items in the domed area or demo plan sheet A-16-01 that JSC want to be salvaged.

**Answer 10**

**Items inside of dome will be salvaged by NASA prior to demolition and removal by the contractor.**

**Question 11**

Plans show antennae to be relocated, who will be responsible for the connect and disconnect as well as location?

**Answer 11**

**Contractor must coordinate with NASA personnel. NASA personnel are to remove and reconnect.**

**Question 12**

JPR 111-1 references steam chilled water lines having asbestos (glove bag removal procedure) Where does this apply?

**Answer 12**

**Does not apply to these roof areas.**

**Question 13**

During field verification of existing conditions it was determined that 2 roofs over structural concrete deck on the plan north side of the building past the expansion joint. Your specification calls for spudding this area and installing a cap sheet on the top of this existing roofing. This violates building and city codes! Does the government plan to give a variance on this area? Will the current structure handle the additional loading of the design?

**Answer 13**

**In the base bid for the north portion of the roof (between column line "S" and "V") spudding of gravel and replacement with cap sheet is called for. The cap sheet is lighter than gravel. Alternate bid for new system may be accepted, if not variance will be granted. See Revised Bid Schedule provided with this amendment.**

**Question 14**

The details for the base flashing at the penthouse walls is incorrect. Please provide a detail for this area that meets the 8" height requirements.

**Answer 14**

**Penthouse has metal wall panels with closures and flashings. Removal of concrete planks will add depth along penthouse in some areas. Alteration of walls panels is undesirable. The 8" requirement is waived.**

**Question 15**

If bad lightweight is discovered, as the specifications say "assume 50%", What process should be used to temporary back in the roof until repairs can be made?

**Answer 15**

**The nature and extent of the bad material will dictate procedures. For small areas spot repairs will occur using suitable materials for repair of light weight concrete or similar Portland cement based materials. For larger areas fesco type board or 1/4 "Dens-deck boards can be installed for interim support of temporary roof.**

**Question 16**

What procedure will be used to replace lightweight where the metal decking exists? By what process will the interior be protected during the lightweight pour and from the weather while light weight insulating concrete is drying?

**Answer 16**

**Contractor is expected to provide under deck protections such as tarps suspended between bar-joists.**

**Question 17**

What is the current mission schedule and how many missions are factored into the contract time?

**Answer 17**

**Current flight is scheduled for mid July 2005. Subsequent missions are TBD. 30 days have been built into the performance period for delays related to missions, weather, or other government caused delays. This applies to this Delivery Order only.**

**Question 18**

Is Building 16 Mission Critical or does it have any specific rooms that are Mission Critical?

**Answer 18**

**There are no mission critical areas where roof work is being done.**

**Question 19**

What are the specific areas of work that have ACM concerns? Identify by location, building wing, and current room number?

**Answer 19**

**There are no known areas of ACM where roof work is being done.**

**Question 20**

Unless directed otherwise, we will use the Asbestos Control Manual (April, 1992) Appendix "D" Inventory of Asbestos, containing materials at the Johnson Space Center to determine, which materials contain Asbestos Containing Materials for the purposes of bidding. If this is not correct, please answer in full detail.

**Answer 20**

**Use Asbestos Control Manual (JPG 1700.1, chapter 12). Access using this web address: <http://jschandbook.jsc.nasa.gov/>**

**Question 21**

What are the specific areas of work that have lead paint concerns? Identify by location, building wing, and current room number?

**Answer 21**

**Lead abatement is anticipated if removal of existing steel decking is required and contractor will perform this work. Applies to all areas underneath the high-bay (16N).**

**Question22**

We will assume, the Government will dispose of the hazardous material (if any) off-site and provide a dumpster for disposal in close proximity of work area. Is this correct? Please explain.

**Answer 22**

**The Government will provide a dumpster and dispose of any hazardous materials.**

**Question 23**

Will NASA provide the Environment Report used to identify quantity and location of hazardous material (if any) in an effort to reduce the cost contingencies of the Asbestos and Lead Abatement subcontractors?

**Answer 23**

**The Government will not provide an Environmental Report. Assume all metal under roof contains Lead Base Paint. No ACM is anticipated.**

**Question 24**

Drawing A-16-05, Detail 03-Constant Force Post Detail This shows a 3/16 inch bolt penetrating the roof deck. This occurs at 27 locations. Does the corrugated roof deck have asbestos material applied to the underside? If so, will the government require the material to be spot abated?

**Answer 24**

**No ACM present on underside of deck.**

**Question 25**

The areas where the dome and the two roof hatches are to be removed will require new structural steel members installed under the corrugated roof deck.

**Question a.**

Are these areas in the high-bay area, which would require special lifting equipment?

**Answer a**

**Yes, Special lifting will be necessary.**

**Question b**

In what areas will the use of a cutting torch or a welding machine be allowed?

**Answer b**

**No cutting torch is permitted. Bolted connections are mandatory.**

**Question c**

Can a scissor lift or JLG access the area?

**Answer c**

**Boom lifts will be necessary.**

**Question d**

Can a rolling scaffold access the area? If so, how long will the Government allow the scaffold to remain in place? Or will the scaffold need to be erected and taken down on a daily bases?

**Answer d**

**Combination of boom lifts and rolling scaffolds could be used. Coordination with NASA personnel will determine extent of use.**

**Question e**

Once each roof penetration is cut open to perform the demolition and replacement activities, what building content or equipment will be in jeopardy of getting exposed to the elements? Or will the Government remove the equipment to minimize the contractor's risk?

**Answer e**

**Contractor will need to supply protections. Equipment may not be removed in some locations.**

**Question 26**

Is It the Government's intent to remove and reinstall the existing lightning protection? Or is the intent to completely remove the existing system and replace the entire system with a new system ONLY ON THE ROOF? Can we assume that the main conductors attached to the structural steel frame or ground are not part of this contract?

**Answer 26**

**Repair and re-certification of existing system is part of the base bid. Provide an alternate bid to supply a new system per specifications, if required. See Revised Bid Schedule provided with this amendment.**

**Question 27**

Drawing G-1 6-03 states: "General Contractor to provide a temporary plywood barricade wall at this location", What is the height of the wall?

**Answer 27**

**Supply 8' wall.**

**Question 28**

Drawing A-16-04, Detail 14 states: "Existing Dome Curb to be removed". The equipment used for this work activity will need to be capable of breaking the curb in small pieces ready to be hauled off the roof.

- a. Can a Jackhammer be used?
- b. Can a small chipping hammer be used?
- c. Does the Government require the curb to be saw cut in small pieces with a concrete saw?
- d. Is there Spray Applied Insulation (SAI) below or adjacent to the Curb area, which will become friable during this work operation?

**Answer 28**

**Concrete walkways are to be removed in pieces or lifted off in slabs. No impact tools will be permitted. Rotary tools are permitted. No SAI is known in this area.**

**Question 29**

Are there any existing roof leaks that have compromised the integrity of the Spray Applied Insulation (SAI)?

**Answer 29**

**No**

**Question 30**

If there are existing roof leaks that have compromised the integrity of the Spray Applied Insulation (SAI), is the abatement to be performed under this contract? If the abatement is part of this contract, provide the quantity and size at each location.

**Answer 30**

**There are no known areas of compromised SAI.**

**Question 31**

Drawing A-16-05, Detail 08-Elevator Guardrail Elevations references drawing "A2" as the sheet the detail is taken from. Drawing A-16-02 does not show any reference to this Detail 08. What is the entire length of the guardrail needed for this project?

**Answer 31**

**Overall length is to be 41' continuous or in three separate pieces. One 13'8" and two 13'4" lengths.**

**Question 32**

Light Weight Concrete (LWC) / Lightweight Insulating Concrete (LIC) There are several specifications that deal with LWC/LIC with varying requirements. See the following:

1. Section 01019 Project Description

Description — Calls for removal and disposal of existing LWC

Calls for new LIC 1/8" per l.f. slope

Unit prices one square of LIC?

Unit pricing for one square of metal decking

2. Section 02220 Demolition

3.2 Demolition and Removal Work - Does not call for removal of "substrate" LWC. this is different from requirement shown Section 01019 Project Description which calls for removal and disposal of existing LWC

3.3 Substrate — Contractor shall provide general patching ...at an additional cost to the government: Roofing system manufacturer to verify that the substrate is suitably prepared to assure proper roof installation and issuance of warranty

3.3.1 Unacceptable Conditions - defects found objectionable to the Roofing system manufacturer will be repaired at unit prices

3.3.1.3 Moisture - Roofing system manufacturer to verify that the moisture detection instrument is acceptable. Says there is a "base amount of LIC to be removed as part of contract is 50%" use unit price to add or deduct work done or not done

3.3.1.4 Steel roof Deck — 25% of steel deck is expected to be removed as part of base bid, use unit prices to add or deduct work done or not done

3. Section 03525 Insulating Concrete Decks

2.1 Provide Acceptable Manufacturer — ZIC 1:4 Insulcel Roof Insulation System by Siplast.

2.6 Roof System Guarantee includes LIC, and entire roof system 20 year ND

**Question 32a**

How much LWC/LIC is to be removed?

**Answer 32a**

**Assume 50% of total roof area to be removed under base bid.**

**Question 32b**

How much existing steel roof deck is to be removed?

**Answer 32b**

**Assume 25% of total roof area to be removed under base bid.**

**Question 32c**

Only Siplasts LIC system is shown, will other LWC/LIC systems such as Celcore Cellular (requires less water) be allowed?

**Answer 32c**

**Yes, alternate manufacturers products can be submitted.**

**Question 32d**

Will all roofing material manufacturers have to include new LWC/LIC in their warranty?

**Answer 32d**

**Warranty is to include roof membrane only.**

**Question 32e**

What if only partial replacement happens, will all roofing material manufacturers have to include new LWC/LIC in their warranty?

**Answer 32e**

**No.**

**Question 32f**

Who will protect interiors and personnel from dust from LWC removal?

**Answer 32f**

**Contractor is to install protective measures suitable to protect all equipment.**

**Question 32g**

Who will protect interiors and personnel from slurry from LIC installation?

**Answer 32g**

**Contractor is to install protective measures suitable to protect all equipment.**

**Question 32h**

Who will protect interiors and personnel from rain intrusion while LIC cures?

**Answer 32h**

**Contractor is to install protective measures suitable to protect all equipment.**

**Question 32i**

Who will protect interiors and personnel while steel decking is replaced?

**Answer 32i**

**Contractor is to install protective measures suitable to protect all equipment.**

**Question 32j**

If all LWC is removed will unit pricing be relevant?

**Answer 32j**  
**Yes**

**Question 32k**

There is no indication of a temporary roof system to be installed after demolition of existing LWC and/or existing steel decking, this will probably be necessary to keep the building occupied until new LIC is installed, what materials would be required for the temporary roof?

**Answer 32k**

**Contractor should only remove amount of existing roofing which can be replaced by the end of each day.**

**Question 32l**

Removing existing LWC from existing steel roof deck flutes will slow work down, can this requirement (spec 07590) be waived?

**Answer 32l**

**It will depend on the location and size of the repair. NASA will determine on-site after condition is exposed.**

**Question 32m**

Will lead or asbestos removal be required to replace LWC? Who will do the work?

**Answer 32m**

**Lead abatement may be required to replace LWC. ACM removal is not anticipated. Abatement will be done by the contractor.**

**Question 32n**

Will lead or asbestos removal be required to replace existing steel deck? Who will do the work?

**Answer 32n**

**Lead abatement is anticipated if removal of existing steel decking is required and contractor will perform this work. ACM removal is not anticipated.**

**Question 33**

Per Section 01220 Special Requirements  
Utility outages and tie-ins done off-duty hours?

**Answer 33**

**NASA will coordinate all utility outages with the building users.**

**Question 34**

Call for building occupancy during work, what about LIC pour intrusion into building is this correct?

**Answer 34**

**Protective methods must be incorporated to prevent intrusion.**

**Question 35**

Lead Base Paint Control

Drawings contain itemized list of where lead paint will be encountered Verify Locations?

**Answer 35**

**Lead abatement is anticipated if removal of existing steel decking is required and contractor will perform this work. ACM removal is not anticipated.**

**Question 36**

Plan must show procedures to have engineering controls and monitoring Does this mean Kelsey Seybold will no Longer be monitoring or do we need to provide additional monitoring?

**Answer 36**

**Kelsey-Seybold will provide monitoring as always here at JSC.**

**Question 37**

Asbestos Control

Drawings contain itemized list of where asbestos will be encountered Verify locations?

**Answer 37**

**ACM removal is not anticipated.**

**Question 38**

Drawings and Specs do not specifically identify ceiling tiles as ACM. Can we remove ceiling tiles without ACM trained & certified removal personnel or inspect above grid line without ACM trained & certified removal personnel to perform moving tiles and cleaning?

**Answer 38**

**Refer to NASA Guidelines. ACM is not anticipated.**

**Question 39**

Working Hours Shows working hours as 7am — 5pm Do we need written permission to deviate?

**Answer 39**

**Written request will be required.**

**Question 40**

Section 01330 Submittals, Will a Concrete Placement and Inspection Plan be required?

**Answer 40**

**Yes**

**Question 41**

Section 01410 Contractor Safety and Health Program SD-07 Certificates calls for submittal of US Nuclear Regulatory Commission Licenses, is this a requirement for roofing work?

**Answer 41**

**This requirement is waived.**

**Question 42**

Safety and Health Program General Provisions

**Question 42a**

Are all Inspections reports required (four phase?)

**Answer 42a**

**Each phase shall have an inspection report.**

**Question 42b**

Are daily Safety and Health Activity Reports required?

**Answer 42b**

**Yes**

**Question 42c**

Are Inspection and Hazard Tracking Records required?

**Answer 42c**

**Yes**

**Question 42d**

Is JF288 "Statistical Information" required?

**Answer 42d**

**Yes**

**Question 42e**

Safety and Health System Organization Requirements  
Can Supervisor be the Safety & Health System Specialist (SHSS)?

**Answer 42e**

**Separate individual shall be appointed as the SHSS who reports to Supervisor.**

**Question 42f**

Can Safety & Health System Staff be foreman or other staff?

**Answer 42f**

**Yes.**

**Question 42g**

Are the following the Special Safety and Health Program Requirements?  
"Basic Orientation Plus" 45 hour Houston Area Safety Council (HASC) good for two years

**Answer 42g**

**Yes**

**Question 42h**

JSC Site Specific Safety and Health Awareness 1.5 hour good for two years

**Answer42h**

**Yes**

**Question 42i**

OSHA 10-hour for foreman, crew chief good for four years

**Answer42i**

**Yes**

**Question 42j**

OSHA 30-hour for supervisors, PM. SHSS good for four years

**Answer42j**

**Yes**

**Question 42k**

JSC LOTO 4 hours for supervisors. PM. SHSS good for two years

**Answer42k**

**Yes**

**Question 42L**

JSC 6-hour for class III asbestos work

**Answer42L**

**Yes**

**Question 42M**

OSHA Asbestos training to do Class III work

**Answer42M**

**Yes**

**Question 43**

Will Kelsey Seybold provide Exposure Monitoring for personnel exposure monitoring for work involving airborne inhalation exposure to hazardous materials

**Answer 43**

**Yes.**

**Question 44**

Will Radiation and Laser Safety be part of our scope of work per JSC form?

**Answer 44**

**Does not apply to this project.**

**Question 45**

Section 01451 Quality Control

Will any deviation initiated by contractor that requires PA or PE services be shown as line items in change order?

**Answer 45**

**Yes.**

**Question 46**

Section 05312 Steel Roof Deck

Flexible Closure Strips — Where (open end and sides?) and/or Why?

**Answer 46**

**Disregard. Not part of this scope of work.**

**Question 47**

Fabrication  
Metal Cants where and/or why?

**Answer 47**

**Disregard. Not part of this scope of work.**

**Question 48**

Ridge and Valley Plates where and/or why?

**Answer 48**

**Disregard. Not part of this scope of work.**

**Question 49**

Metal Closure Strips where and/or why?

**Answer 49**

**Disregard. Not part of this scope of work.**

**Question 50**

Who will provide certification of installed galvanized materials, joint sealants, and flexible closure strips?

**Answer 50**

**Disregard. Not part of this scope of work.**

**Question 51**

What is a vent clip?

**Answer 51**

**Disregard. Not part of this scope of work.**

**Question 52**

Section 06100 Rough Carpentry

**Question 52a**

Submittals — Are SD-06 Test Reports - per ASTM D2016 Method A required?  
SD-C 7 Certificates  
Framing Materials certificate from whom?

**Answer 52a**

**Disregard. Not part of this scope of work.**

**Question 52b**

Anchorage & Fastener Materials from whom?

**Answer 52b**

**Roofing system manufacturer.**

**Question 52c**

Preservative Treated Lumber Certificate from whom?

**Answer 52c**

**Lumber vendor.**

**Question 53**

Wood Materials General Requirements - Calls for 15% moisture content costs more, lead time problems. Can 19% Kiln Dried Wood be used?

**Answer 53**

**No.**

**Question 54**

Fire Retardant Treated Lumber

**Answer 54**

**Disregard. Not part of this scope of work.**

**Question 55**

Calls for a 19% moisture content for lumber, is this OK?

**Answer 55**

**No.**

**Question 56**

Calls for a 15% moisture content for plywood, can 19% Kiln Dried Wood be used?

**Answer 56**

**No.**

**Question 57**

Preservative Treated Lumber Calls for a 15% moisture content for wood, can 19% Kiln Dried Wood be used?

**Answer 57**

**No, 15% is required.**

**Question 58**

Blocking, Cant Strips, and Nailers calls for groove cutting perimeter wood can we delete this requirement?

**Answer 58**

**Yes.**

**Question 59**

Calls for bottom of nailers cut to provide a net 10% of edge face? Calls for wood vents, provide a net 20% of edge face?

**Answer 59**

**Yes.**

**Question 60**

Section 07509 Built-Up Roofing

**Question 60a**

Will you accept a comparable system by Johns Manville?

**Answer 60a**

**Refer to new specification, section 07513 showing additional manufacturers.**

**Question 60b**

Specification 07509 Built-Up Roof Section 2.5 shows three manufacturers Siplast, Soprema, and Derbigum.

The Siplast products use only a fiberglass interply mat which is cheaper. The Paradiene 2OHV base layer (80 mils thick) sheet has tear strength of 40 lbf and a peak load of 75 lbf/inch. The Paradiene 30 FR cap sheet (98 mils thick) has a tear strength of 40 lbf peak and a peak load of 75 lbf/inch.

The Soprema products use polyester mat which cost more and has a higher performance rating (~50% higher) than Siplast. The base sheet Sopralene 180 (120 mils thick) has a tear strength of 87 lbf and a peak load of 85 lbf/inch. The Sopralene 250 FR cap sheet (160 mils thick) has a tear strength of 125 lbf and a peak load of 115 lbf/inch.

Performance Roofing Company the manufacturer of Derbigum doesn't list a SBS polymer modified bitumen cap sheet in their product line. The Derbigum PRS modified base sheet is an SBS polymer modified bitumen base sheet reinforced with a non-woven glass fiber mat. The cap and base flashing cap sheet Derbigum Derbicolor FR (180 mils thick) has a tear strength of 120 lbf peak and a peak load of 170 lbf/inch. Derbicolor product is APP polymer modified bitumen which a torch/heat weld application. Per the specification 01410 section 1.7.16 open flame rooftop applications are not allowed.

We feel that the Siplast product is an inferior product and should be removed from the acceptable product list or allow fiberglass mat products from Soprema to "level the field". We can get a No Dollar Limit (NDL) 20 year warranty using fiberglass mat products from Soprema. Will you allow a change in the specification to allow fiberglass mat products from Soprema?

**Answer 60b**

**Refer to new specification, section 07513.**

**Question 60c**

Calls for groove cutting to provide ventilation for the insulation, there is no insulation specified and groove cutting weakens the perimeter nailer. Can we delete this requirement?

**Answer 60c**

**Yes.**

**Question 60d**

Defect in existing LWC are to be remedied. Who will determine scope of work for corrections and who will pay?

**Answer 60d**

**Defects beyond the 50% assumed will be remedied on a unit cost basis per square foot. Government will pay for additional repairs, if needed.**

**Question 60e**

Who will pay to correct defects in drains and associated piping?

**Answer 60e**

**The government if required.**

**Question 60f**

Per spec 07590 Is there to be a unit price for the complete removal of existing wood nailers and replacement with Fire Treated material?

**Answer 60f**

**Wood nailers replaced by exterior treated materials are part of base bid.**

**Question 61**

Section 13999 Fall Restraint System General Specification

**Question 61a**

Will the system installed be required to be a Fall Arrest System per CFR 1910.66 App C Personal Fall Arrest System specifically Section I ( C ) (10) that starts with "Anchorages to which fall arrest system is attached.....5000 pounds. ..safety factor of at least two...."7

**Answer 61a**

**Specification, Section 13999 was removed by previous amendment and replaced with new Specification, Section 13105.**

**Question 61b**

Is Latchways Mansafe Fall Prevention System the only one allowed? Page 7 of 10

**Answer 61b**

**Yes.**

**Question 62**

Specification 07920

Will Peaf wall panels need to be recaulked? Inside and out?

**Answer 62**

**Not included in scope of work.**

**Question 63**

Will overhead doors require new sealants where they tie into wall panels?  
Inside and out?

**Answer 63**

**Not included in scope of work.**

**Question 64**

Will personnel doors require new sealants where they tie into wall panels? Inside and out?

**Answer 64**

**Not included in this scope of work.**

**Question 65**

Will wall louvered openings require new sealants where they tie into wall panels? Inside and out?

**Answer 65**

**Not included in this scope of work.**

**Question 66**

Per verbal instruction at Prebid meeting we were to use dimensions shown on plans. Is this correct?

**Answer 66**

**Yes.**

**Question 67**

Who performs relocation of antenna and other roof top instruments?

**Answer 67**

**NASA Personnel via Contractor's coordination with the Gilbane inspector.**

**Question 68**

A- 16-01 Demolition Plan shows a schedule of Lead and Asbestos Abatement. Where is this material located in relation to the demolition?

**Answer 68**

**Lead abatement is anticipated if removal of existing steel decking is required and contractor will perform this work. ACM removal is not anticipated.**

**Question 69**

Will cost of abatement be part of our pricing?

**Answer 69**

**Yes**

**Question 70**

Is there roofing under the existing concrete sidewalk and pads?

**Answer 70**

**Yes.**

**Question 71**

Contractor should remove amount of existing roof which can be replaced by the end of each day.

**Answer 71**

**Yes, unless work can be completed in single work day.**

**Question 72**

Will you provide structural requirements for hole created by dome removal?

**Answer 72**

**Structural details shown on plans. Drawing A-16-01 and A-16-04.**

**Question 73**

If existing steel deck is removed will new decking require painting to match existing? Top and Bottom?

**Answer 73**

**Bottom side of steel deck only where it is exposed.**

**Question 74**

If removal and/or relocation of electrical item(s) on the roof is required is the price to be included in our bid?

**Answer**

**Yes.**

**Question 74a**

Who is authorized to do the work?

**Answer 74a**

**Electrician with NASA safety training.**

**Question 74b**

Do they need to be respirator trained and certified to work in the plenum?

**Answer 74b**

**NASA confined space training will be required for work in plenum areas.**

**Question 74c**

Can removed lines be cut off at the deck line or will they be required to be stopped at a J box inside the building?

**Answer 74c**

**Stopped at J-box below deck.**

**Question 75**

Will new Elevator hatch doors be required or will we be reinstalling the old one? If new what are the specifications?

**Answer 75**

**Re-install existing.**

**Question 76**

Will welds on new antennas racks be required to be x-rayed?

**Answer 76**

**Yes, Certification of quality is required.**

**Question 77**

Is work performance time 120 days or 180 days?

**Answer 77**

**Performance period is to be 210 calendar days after Notice to Proceed.**

See answer to question 17 concerning government delays and weather.

**Question 78**

Do all employees need to have background checks by Contractor? Will all employees be finger printed?

**Answer 78**

**Background checks required on non-US citizens. Finger prints required on non-US citizens.**

**Question 78a**

Will all aliens be required to present updated "green" card and other information?

**Answer 78a**

**Yes.**

**Question 79**

Since site visit did not involve inspection of interiors as related to hazard materials abatement, electrical system modification, instrumentation modifications, and mechanical modifications will these costs be part of our pricing?

**Answer 79**

**Yes. Provisions were made for 2<sup>nd</sup> walk-thru of job site.**

**Question 80**

Drawing A-16-05 indicates insulation on Constant Force Post details, Is there an intention to use insulation?

**Answer 80**

**Modification of detail allowed as part of shop drawing submittal.**

**Question 81**

Please provide specifications on galvanizing for guardrails and antenna racks?

**Answer 81**

**Rails and racks are to be hot-dipped galvanized after fabrication complying with ASTM A123.**

**Question 82**

Please clarify what roof top items are to be painted? Are there non-roof top items to be painted?

**Answer 82**

**We are not aware of any items to be painted on the roof top.**

# PART I – THE SCHEDULE

## **SECTION B SUPPLIES OR SERVICES AND PRICES/COSTS**

All terms and conditions, including all attachments, are applicable to every delivery order issued hereunder, unless specifically excepted. Fill-in data for clauses requiring fill-ins will be provided on each delivery order where noted unless specifically excepted apply to this contract.

### **B.1 Scope of Work:**

The Contractor shall furnish all labor, materials, equipment and supervision necessary for the performance of repair and rehabilitation of roofing systems at JSC, Ellington Field and SCTF. All work shall be accomplished in accordance with the Statement of Work provided with each delivery order, the contract terms and conditions; and the specifications, drawings, and special conditions provided with the Delivery Orders, when applicable. All work shall be initiated through Delivery Orders issued in accordance with **JSC Clause 52.216-95 Method for Placing Delivery Orders. Delivery Orders may be issued only by the Contracting Officer.**

### **B.2 TYPE OF CONTRACT**

- a. This contract is for a Roofing Indefinite Delivery, Indefinite Quantity (IDIQ) Best Value Selection contract under which the Government intends to issue Fixed-Price Delivery Orders for roofing construction under NAICS Code 238160.
- b. Delivery Order projects will be funded as they are issued under this contract and the total cumulative value of all Delivery Orders shall not exceed \$9,900,000 for the 5-year period.
- c. Upon satisfactory completion of each Delivery Order, the Contractor shall be paid the fixed price established for that order, less the amount of any progress payments made pursuant to the FAR clause 52.232.5 *Payments under Fixed-Priced Construction Contracts*.
- d. Delivery Orders may require completion of a specific project on a lump-sum, firm-fixed-priced basis, or may require fixed-price unit pricing for specific quantities. Delivery Orders may be competed among offerors based on detailed specifications and drawings furnished by the Government in accordance with FAR Part 16.504, or may be conducted under two phase design-build procedures of FAR 36.3 (competition to be limited to IDIQ contract holders in either event).

### **B.3 MINIMUM/MAXIMUM CONTRACT**

The guaranteed minimum amount of work which may be required under this contract is \$5,000. The maximum amount of work which may be required under this contract is \$9,900,000. However, the total amount of all Delivery Orders under all contracts awarded under solicitation number **NNJ05096224R** shall not exceed \$9,900,000.

#### B.4 LIMITED COMPETITION AMONG DELIVERY ORDERS

- a. This contract is one of a group of multiple award contracts. The procedure for administering orders under multiple award contracts is detailed in the Federal Acquisition Regulation (FAR) at 16.505(b). It is the Government's intention to compete Delivery Orders among the IDIQ Contractors to the maximum extent practicable. In placing orders the Contracting Officer may consider past performance, quality of workmanship, and price, to provide each IDIQ Contractor a fair opportunity to be considered for each order. Any IDIQ Contractor with a pattern of unsatisfactory performance evaluations in any of these areas may be excluded from competing for future orders at the discretion of the Contracting Officer until such time as the Contractor demonstrates that performance problems have been rectified. The Contracting Officer will issue a Delivery Order Request for Proposal (RFP) including all applicable specifications, drawings, and special conditions order requirements. The IDIQ Contractors will be given a time and date by which a fixed-priced offer shall be submitted to the Contracting Officer for consideration.
- b. Timely offers received will be evaluated taking into consideration, as a minimum, performance on previous and current delivery orders and proposed price.
- c. The Government reserves the right to forego competition in the event one of the conditions described in FAR 16.505(b)(2) are met or the contracting Officer determines that it is in the best interest of the Government to issue an order directly to one IDIQ Contractor.

#### B.5 ALTERNATE PROCEDURES

The Government may have requirements that must be met utilizing the two-phase design-build procedures outlines in FAR Part 36.3. In these instances Delivery Orders will be competed among these Contractors using a two-phase solicitation procedure as detailed in FAR Part 36.3 and on the particular delivery order instructions.

#### B.6 PRINCIPAL PLACE OF PERFORMANCE

The effort required under this contract shall be performed primarily at NASA JSC, Houston, Texas, and at other locations within the Houston area where JSC is responsible for construction, alteration, repair, or rehabilitation of facilities, such as Ellington Field and Sonny Carter Training Facility.

(End of clause)

(g) After receipt of the Contractor's proposal, the contracting officer shall act within a reasonable period, provided that when the necessity to proceed with a change does not permit time to properly check the proposal, or in the event of a failure to reach an agreement on a proposal, the contracting officer may order the Contractor to proceed on the basis of the price being determined at the earliest practicable date. In such a case, the price shall not be more than the increase or less than the decrease proposed.

(End of clause)

#### **H.11 Plans and Documentation**

- a. Safety and Health Program Documents – The contractor shall comply with their approved safety and health plan listed in attachment J.2.
- b. Project Specific Safety and Health Plan – The contractor shall comply with the project approved safety and health plan listed in attachment J.2.
- c. The NASA/Johnson Space Center Form, JF288, Statistical Information - Contractor Safety and Health Program, shall be provided to the Contracting Officer and the NASA/JSC Institutional Safety Division, monthly for the purpose of evaluation of the Contractor's performance from an occupational safety and health standpoint.
- d. Listed below are the compliance standards that have been implemented at NASA, Johnson Space Center:
  - (a). 29 CFR 1910: Department of Labor, Occupational Safety and Health Administration (OSHA), Safety and Health Standards
  - (b). 29 CFR 1926: Department of Labor, Occupational Safety and Health Administration (OSHA), Safety and Health Regulations for Construction
  - (c). 10 CFR 20, US Nuclear Regulatory Commission, Standards for Protection Against Radiation
  - (d). National Fire Protection Association (NFPA) Standards
  - (e). JPG 1700.1, latest version, NASA/JSC Safety and Health Handbook  
<http://jsc-web-pub.jsc.nasa.gov/bd01/safety/index.html>
- e. Labor Relations/Davis Bacon Compliance Data and/or Plan

The Contractor may be required to submit information to the Contracting Officer in support of the Semi-Annual Labor Enforcement Report due to NASA Headquarters on April 20th and October 20<sup>th</sup>.

#### H12 Subcontractor Safety Performance

The contractor shall monitor the safety performance of its subcontractors, at all tiers and ensure they are in compliance with the approved Safety and Health Plan, Attachment J-2. In addition, the prime contractor shall review the EMR rating for its subcontractors, at all tiers and require those with a rating above .99 to submit an explanation to the prime addressing any mitigating circumstances which caused their rating to exceed .99. This explanation should include any corrective action taken.

**DELIVERY ORDER 001 BID SCHEDULE**

**CLIN 001 Base Bid**

The project consists of the removal and disposal of existing lightweight concrete deck and build up roofing system and installation of new lightweight insulation concrete (LIC) and modified bitumen roofing system. The new roofing system shall consist of a modified bitumen SBS roof membrane system adhered in hot asphalt over a vented base sheet that is mechanically fastened to the new LIC system. The SBS roof membrane system will consist of a smooth surface modified bitumen membrane. The new roof application will include the removal and replacement of metal coping and flashings, base flashing of all roof penetrations and components. The new LIC system is to e sloped 1/8" per foot to roof drains. Mechanically attach vented base sheet to new LIC system, fully adhere new modified bitumen roofing system in hot asphalt, provide and install new stainless steel flashings and counterflashings, perimeter flashings, and install new fall restraint system. Provide a complete roofing system with a 20 year NDL warranty that conforms to manufacturer's requirements and Project Documents. Note: JSC uses only the Latchways Mansafe Systems for Fall Restraint and/or Fall Arrest.

**CLIN 002 (Option 1)**

Install a new lightning protection system for the entire Building 16N

**CLIN 003 (Option 2)**

Replace the roofing system between Column S and V in lieu of installing Cap Sheet only.

**2. FIRM-FIXED PRICE (1852.216-78)(Dec 1988)**

	<b>Materials</b>	<b>Labor</b>	<b>Total</b>
A. CLIN #001 Base Bid	_____	_____	_____
B. CLIN #002 (Option 1)	_____	_____	_____
C. CLIN #003 (Option 2)	_____	_____	_____
<b>Total</b>	_____	_____	_____

**The Total Firm-Fixed Price of this Delivery Order (CLIN 1 – 3) is**  
**\$ \_\_\_\_\_**

**Note:** Options could be added at time of award or anytime after award of the Delivery Order, depending on funding.

Contractor is to provide per unit pricing for removal (if applicable), provision of and installation of the following:

<b>Insulating Light Weight Concrete</b>	<b>Unit Price Per Square (100 SF)</b> \$ _____
<b>Metal Decking</b>	<b>Unit Price Per Square (100 SF)</b> \$ _____

- (b) General Safety and Health Plan - to be submitted with proposal (see Sections L & M). Please provide three (3) hard copies of your Safety and Health Plan and one (1) compact disk (CD) copy.

See Specification Section 01410 for instructions

**6.3.1.2.2** The contractor must also provide the following:

- **Independently documented evidence of your firm's designated OSHA Total Recordable Incident Rate (TRIR) with NAICS Code**, which will be considered as one indicator of the effectiveness of your safety and health program, and may also be considered as part of the evaluation. You must provide your current Recordable Incident Rate (RIR) and the previous three year's TRIRs.
- **Independently documented evidence of your firm's OSHA DART rate (Days away from work, days of restricted work activity or job transfer) with NAICS Code**, which will be considered as one indicator of the effectiveness of your safety and health program, and will also be considered as part of the evaluation. You must provide your current DART rate and the previous three year's Dart rates.
- **Independently documented evidence of your firm's designated Safety Experience Modifier Rate (EMR) used to calculate Workmen's Compensation Insurance**, which will be considered as one indicator of the effectiveness of your safety and health program, and will also be considered as part of the evaluation. You must provide your most current EMR rating and the previous two years EMR ratings. Offerors having a current ECR rating above 0.99 must submit a detailed explanation that addresses any mitigating circumstances that caused their EMR rating to exceed .99. This explanation should include any corrective action taken.
- Information on all OSHA citations issued to the firm over the past three years. Additionally, provide information on how each citation was resolved or mitigated.
- Information on all previous OSHA-reportable mishaps (OHS Forms 200 & 300) that have occurred in the past 3 years to include items 1 through 3 below. The following website shall be used to verify OSHA data: [www.osha.gov/cgi-bin/est/est1](http://www.osha.gov/cgi-bin/est/est1)
  1. Address any fatalities that have occurred; identify whether the investigation has been completed and the results;
  2. The cause of the safety and health mishaps;
  3. Describe the corrective action taken and when it was implemented. If the corrective action has not yet been implemented, provide the planned implementation date.

This information shall be submitted separately and shall not be included in the submitted General Safety and Health Plan.

**6.3.1.3** Quality Plan: Provide a quality assurance plan for the project *addressing each Quality control requirement called out in the specification section 01451. The plan will be incorporated into the successful offeror's contract.*

**6.3.1.4** Labor Relations/Davis Bacon Compliance: Provide a narrative discussion as follows:

- Briefly describe your understanding of the Government construction labor standards and how they relate to the work to be performed on the project.

**6.4.2 Safety and Health Risk Mitigation - VALUE CHARACTERISTIC:**

The Offeror's ability to identify and mitigate significant safety and health risks associated with performance of the project and, in general, with construction work of this magnitude and nature. Provide:

6.4.2.1 How you would minimize and mitigate safety and health risks for your employees and others on this contract.

6.4.2.2 How you would utilize training for risk mitigation on this Contract

6.4.2.3 Examples of innovative and proactive safety risk mitigation on other jobs (those jobs for which references are provided under Relevant Experience and Past Performance) may be provided.

6.4.2.4 Independently documented evidence of a TRIR will be considered a value enhancement for a firm with a project relevant NAICS Code as follows\*:

- **High Value: TRIR in the first quartile for their NAICS Code and company size**
- **Moderate Value: TRIR in the second quartile for their NAICS Code and company size**

\* of incidence rates of total recordable cases of nonfatal occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.

6.4.2.5 Independently documented evidence of the DART rate will be considered a value enhancement for a firm with a project relevant NAICS Code as follows\*:

- **High Value: DART rate in the first quartile for their NAICS Code and company size**
- **Moderate Value: DART rate in the second quartile for their NAICS Code and company size**

\* of incidence rates of days away from work, job transfer, or restriction cases, nonfatal occupational injuries and illnesses, by quartile distribution and employment size group, private industry as most recently published by the Bureau of Labor Statistics.

6.4.2.6 Independently documented evidence of an EMR will be considered a value enhancement as follows:

- **High Value: EMR of 0.60 or less**
- **Moderate Value: EMR of 0.80 or less**

**6.4.3 Constructability Analysis– VALUE CHARACTERISTIC:**

Offerors will be evaluated on their understanding of the project specifications through submission of a constructability analysis. Specifically:

**6.4.3.1 Identify design errors, deficiencies, omissions, and ambiguities:**

Offerors will receive credit for all design errors, deficiencies, omissions, and ambiguities identified under this characteristic if the Government evaluators determine that the items noted are in fact erroneous or ambiguous. Offerors identifying significant problems in the design package (in terms of cost, quality, safety, and schedule impact to the project) will receive more credit than those identifying only minor discrepancies.

# COD MISSION UPDATE

## Facility Engineering Division Planning Schedule

Flight	Launch	Landing	Shuttle	COD Mission Manager/Alt
* STS-114 net LF1	07/13/05 MPLM2(P)-03 ESP2,LMC	- [12 days]	Discovery OV-103	RB/CM
STS-121 ur ULF1.1	TBD MPLM1(P) ICC,LMC	- [11 days]	Atlantis OV-104	DA/LB
STS-115 ur 12A	TBD P3/P4	- [11 days]	Atlantis OV-104	LB/RB
STS-116 ur 12A.1	TBD S/Hab-SM, P5, ICC	- [11 days]	Discovery OV-103	CM/DA
* STS-117 ur 13A	TBD S3/S4	- [tbd]	Endeavour OV-105	RB/CM
* STS-118 ur 13A.1	TBD S/Hab-SM S5, ICC	- [tbd]	Discovery OV-103	DA/LB

All flight dates are based on Central Standard or Daylight Time.

\* Indicates revision, net: no earlier than, ur: under review, tbd: to be determined

Mission Manager/Alternate: DA-David Allen, CM-Charles Moore, LB-Leroy Bessix, RB-Reinhard Brueckner