

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 15-Aug-2016	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY NAVFAC SOUTHEAST PWD CORPUS CHRISTI 8851 OCEAN DRIVE, BLDG 19 CORPUS CHRISTI TX 78419-5021		CODE N69450	7. ADMINISTERED BY (If other than item 6) <b>See Item 6</b>		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. N69450-16-Q-3236	
			X	9B. DATED (SEE ITEM 11) 19-Jul-2016	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE			FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer 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 <u>1</u> 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 CONTRACTS/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 <input type="checkbox"/> is not, <input type="checkbox"/> 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.)  This amendment is issued to incorporate clarifications to the SOW (See Page 2)  **Proposals are due ON/ BY COB Monday, 22 August 2016**					
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) DANIEL ORTIZ / CONTRACT SPECIALIST TEL: 361-961-5219 EMAIL: daniel.ortiz5@navy.mil		
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED  15-Aug-2016

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

## SUMMARY OF CHANGES

(End of Summary of Changes)

**The following items are applicable to this modification:**

SOW CLARIFICATIONS

**All questions submitted were addressed. There may be some duplication.**

- ... Will personal belongings & government documents/files be removed from file cabinets and desk?
  - **The personal belongings including government documents/files will be removed prior to commencement of work.**
  
- ... Will Contractor be allowed to relocate furniture in hallway or another room on 2nd floor?
  - **Furniture can be relocated to hallways or to another room.**
  
- ... In the scope of work 13, item # 4 states to install 12 X 12 linoleum flooring; on sheet A- 201 detail 2 also states install linoleum flooring, but on A-201 states new VCT in dispatch office—Please advise & provide spec for flooring required.
  - **VCT ASTM F**
  
- ... Is it possible to provide further specification on the carpet?
  - **Carpet specification is attached.**
  
- ... In Room 217, it shows only to paint walls. This room is a high sensitive room, will government move all items against wall or is that the Contractor's responsibility?
  - **Room 217 is not included in the work plan.**
  
- ... On the phase plan A-200 shows no work to be performed in Room 217, on sheet A-202 shows to be painted—Please clarify.
  - **Room 217 is not included in the work plan.**
  
- ... In rooms (200, 203, 204, 205, 207, 209, 211, and 221) that have a carpet base to be removed & install 4" base, what will happen to 1" space above base that is uncovered by wall covering or base?
  - **All existing cove base is 4" (inches) in height. If 1" space above base is encountered, patch all holes or blemished areas to restore original condition prior to paint job.**

- ... In the scope of work 13, item # 15, states to apply one coat of primer on walls, in Room 200, 203, 204, 205, 207, 209, 211, and 221 these walls contain wall covering, chair rails and ceiling molding—do these 3 items all require 1 coat primer and 2 coats paint? Will painting be required over the wall covering, or will the wall covering need to be removed in order to paint? Do chair rails and ceiling molding need to be removed?
  - Chair rails do not need to be painted. Wall covering will need to be removed and painted. ceiling molding shall be painted over.
  
- ... In the scope of work 13, item # 15, states to paint door trims—are all doors to be painted as well?
  - Only paint door trim.
  
- ... In the scope of work 13, item # 15, states to paint stair handrails—does exposed steel at the step risers and tread also require paint?
  - All steel members on the stair case including risers and handrails shall be painted.
  
- ... At the 1st floor, does the exposed deck, steel structure, and HVAC duct get painted? If yes, has an analysis been done for Lead Paint?
  - Roof deck trusses including HVAC system do not need to be painted.
  
- ... On sheet A- 201, general note #6 is not indicated on drawings, is this correct?
  - Wall framing detail is not included in the drawing. Contractor shall refer R602.5 Interior non-bearing wall from IBC (International Building Code) to close off the opening.
  
- ... On sheet A- 201, detail #1 at general note #4, should that be note #5?
  - Yes, the removal of existing single leaf door and close off the opening shall be in note #5 not in note #4.
  
- ... Is on-site ( in building) storage available for equipment/ new materials or can a container be placed on site
  - Materials and equipment can be staged at work site as long as does not interfere with means of egress/exit.
  
- ... It is understood that the computer equipment will be removed by client. Boxes, personal effects, file cabinets, etc. are to be relocated by the contractor and put back

in place. What areas will each phase be re-located to on a temporary basis? Upstairs or downstairs? There is a large quantity of things to be moved. Please address the inventory process. Will owner inventory and direct specific storage areas per room?

- All office furniture including wall attached framed and bulletin boards shall be temporarily re-located in phases as shown on the attachment A. Furniture at second level can be relocated to another room at second level during work.

... Room 204A is a room that has special camera equipment that must stay functional at all times. Please confirm.

- Security personnel will remain at job-site all times. Contractor may require to work around through equipment that are fixed to existing wall systems. Non-fixed equipment will be temporarily removed by security personnel during carpet replacement work. Furniture including cabinet and TV screens shall be removed and installed back by the contractor after the completion of paint work.

... In Phase 1- downstairs, what height are walls to be painted? It is an open ceiling to roof deck with exposed bar joists that may have peeling lead paint. Please confirm that only walls are to paint.

- Only walls height up to room deck shall be painted. Roof trusses including HVAC is not part of work plan.

... There is wallpaper in some rooms that are scheduled to have new wall paint. Is the wallpaper to be painted over?

- The wall paper shall be removed prior to new painting job.

... The solicitation does not address any treatment of the chair rail in certain offices. Does this get re-finished?

- The chair rail shall remain. Not part of work plan.

- ... The solicitation states that the stair handrails are to be painted. Is it correct to assume that NAVFAC is not asking for the stair risers and underside of stairs to be painted?
- All steel members including risers, handrails, and all sides shall be all painted.
- ... The stair well painting process will preclude public access during times of equipment usage. Can this work be done during work-days?
- Yes, the two stairwells are in different phases of the project therefore one will always be open.
- ... Once the work is to be started, where is the contractor going to move all furniture, posters, pictures, billboards, etc.?
- The work shall be conducted in phases as shown on the layout plan ( Attachment A). Contractor may temporarily move furniture to phase II area or another room while phase I area takes in place.
- ... The Scope of work references that the contractor is to install "2 (three) new 20 amps quad 110 volts receptacles..." which is it 2 or 3?
- It is a typo, 3 (three) receptacles are required as shown on sheet A-201 from the attachment A.
- ... During the walkthrough some wallpaper was noted, is the wallpaper to be removed prior to painting? This step would be a considerable factor to pricing this project. If the wall paper is just painted over, this may cause the paint to pre-maturely peel.
- Remove existing wall paper prior to new paint job.
- ... Where there is going to be a new wall and receptacles added in place of a door, is the adjacent wooden trim to be continued on this new wall located between the breakroom and room 221 DLC?

- Yes. Match existing trim.

... Are there any asbestos or lead reports to assure that the contractor will not be needing the services of an environmentalist or air monitor?

- The asbestos and lead test was conducted on 2002 and 2012. The report can be provided per contractor's request. Most of existing wall system was below reporting limit except lead paint around the existing window frames. Floor tile mastic also contains asbestos, but the work plan is to encapsulate them (installing carpet tile on existing VCT flooring).

#### **SECTION 09 68 00.00 48 – CARPETING**

Scope: 1. Modular carpet tile and entrance modular carpet tile.

References: 1. The publications referenced above (or below) establish minimum requirements for materials, systems and execution which may be specified in this Section.

##### AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS (AATCC)

AATCC TM 16	Test Method: Colorfastness to Light
AATCC TM 107	Test Method: Colorfastness to Water
AATCC TM 134	Test Method: Electrostatic Propensity of Carpets
AATCC TM 165	Test Method: Colorfastness to Crocking: Carpets - AATCC Crockmeter Method
AATCC TM 174	Antimicrobial Activity Assessment of Carpets

##### AMERICAN NATIONAL STANDARDS INSTITUTE

NSF/ANSI 140	Environmental Standards for carpet and floor covering based on life cycle analysis testing
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##### AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 297	Rubber Products – Chemical Analysis
ASTM D 418	Pile Yarn Floor Covering Construction
ASTM D 1423	Twist in Yarns by Direct-Counting
ASTM D 1667	Flexible Cellular Materials – Vinyl Chloride Polymers and Copolymers (Closed-Cell Foam)
ASTM D 3278	Test Methods for Flash Point of Liquids by Small Scale Closed-Cup Apparatus
ASTM D 3676	Rubber Cellular Cushion Used for Carpet or Rug Underlay
ASTM D 5252	Practice for the Operation of the Hexapod Tumble Drum Tester
ASTM D 5417	Practice for Operation of the Vettermann Drum Tester
ASTM D 5793	Binding Sites Per Unit Length or Width of Pile Yarn Floor Coverings
ASTM D 5848	Mass per Unit Area of Pile Yarn Floor Coverings
ASTM E 648	Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
ASTM E 2129	Standard Practice for Data Collection for Sustainability Assessment of Building Products

ASTM E 2471 Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet

CARPET AND RUG INSTITUTE (CRI)

CRI 104 Commercial Carpet Installation Standard

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO 2551 Machine-made Textile Floor Coverings – Determination of Dimensional Changes Due to the Effect of Varied Water and Heat Conditions (AACHEN Test)

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS SS-W-40 Wall Base: Rubber, and Vinyl Plastic

U.S. GREEN BUILDING COUNCIL (USGBC)

LEED Leadership in Energy and Environmental Design(tm) Green Building Rating System for New Construction (LEED-NC)

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

16 CFR 1630 Standard for the Surface Flammability of Carpets and Rugs (FF 1-70)  
40 CFR 247 Comprehensive Procurement Guideline for Products Containing Recovered Materials

Regulatory requirements: 1. Carpet and adhesives shall bear the Carpet and Rug Institute (CRI) Green Label Plus label indicating that the carpet is in compliance with testing criteria and testing frequencies through independent laboratory test results and meets the criteria of the CRI Green Label Plus Carpet Testing Program. Carpet shall meet NSF ANSI 140 (indoor air quality). Carpet shall conform to EPA requirements for RECYCLED / RECOVERED MATERIALS. Where possible, product shall be purchased locally to reduce emissions of fossil fuels from transporting.

Quality Assurance: 1. Installation Provider:  
a. The Contractor shall be responsible for the quality of the completed floor covering installation, including both the quality of the materials and labor used in the installation. The Contractor shall warrant to owner that all products, materials and services related to the floor covering installation, including any floor covering(s), adhesive(s) and/or other products or materials used in the installation, meet specifications set forth herein.

Submittals: 1. Shop Drawings: Three copies of drawings indicating areas receiving carpet, carpet types, textures and patterns, direction of pile, location of seams, and locations of edge molding.

2. Quality Assurance:
  - a. Manufacturer:
    - (1.) Commitment to quality: Three copies of verification of carpet manufacturer's registration to the ISO 9001 / 9002 Quality Management System
    - (2.) Commitment to Sustainability: Three copies of verification of carpet manufacturer's environmental responsibility through programs of source reduction, recycling, reuse and conservation, and registration to the ISO 14001 Environmental Management System.
  - b. Installation Provider:
    - (1.) Three copies of verification showing that the installation provider has minimum 5 year experience in successful carpet installation experience similar to the work of this Section.

3. Product Data:

- a. Three copies of the carpet manufacturer's catalog data and printed documentation stating physical characteristics, durability, resistance to fading, and flame resistance characteristics for each type of carpet material and installation accessory.
    - (1) Fiber Verification – Certification from the fiber producer verifying use of the premium branded, type 6,6 or type 6 fiber in the submitted carpet product. Fiber must have a cross-section modification ratio no greater than 2.5.
  - b. Three copies of the carpet manufacturer's printed installation instructions for the carpet, including preparation of substrate, seaming techniques, and recommended adhesives and tapes.
  - c. Regulatory Requirements: Three copies of report stating that carpet contains recycled materials and/or involvement in a recycling or reuse program. Report shall include percentage of recycled material.
  - d. Environmental Impact and Measurements. Three copies of an environmental impact and measurements statement documenting their efforts to meet the Executive Order 13423 and RCRA 6002 which includes the following:
    - (1.) Improving energy efficiency and reducing greenhouse gas emissions attributable to the manufacturing location (including outsourcing).
    - (2.) Improving non renewable energy per unit of production at the manufacturing location (non-renewable energy is being reduced on a yearly basis).
    - (3.) Solid waste generated at the manufacturing location (including outsourcing) regardless of disposal method is being reduced and documented.
    - (4.) Improving water intake for manufacturing purposes at the manufacturing location (including outsourcing) on a yearly percent.
4. Samples:
- a. Carpet: Three "Production Quality" samples minimum 18 inches x 18 inches (or full carpet tile size whichever is larger) of each carpet proposed for use, showing quality, pattern, and color specified. If carpet pattern is extended across multiple carpet tiles, three "sets of carpet tile shall be provided with the "set" of carpet tiles equal to the numbers of full size carpet tiles needed to fully show the carpet pattern.
  - b. Rubber, Vinyl or Aluminum Moldings: Three pieces of each type proposed for use, showing quality, pattern, and color specified, at least 12 inches long.
  - c. Special Treatment Materials: Three samples of each type proposed for use, showing quality, pattern, and color specified, at least 12 inches long showing system and installation method.
5. Test Reports: Moisture and Alkalinity Tests; Three copies of test reports of moisture and alkalinity content of concrete slab stating date of test, person conducting the test, and the area tested.
6. Certificates:
- a. Certificates of compliance from a laboratory accredited by the National Laboratory Accreditation Program of the National Institute of Standards and Technology attesting that each type of carpet and carpet with cushion material conforms to the standards specified.
  - b. Regulatory Requirements; Report stating that the carpet contains recycled materials and indicating the actual percentage of recycled material.
  - c. Installation provider's proof of insurance, copy of contractor's license and worker's compensation certificate.
7. Installation References; Five current project references for installation provider, with scope, date and customer contact with telephone number in compliance letter.
8. Green House Gas Status of Product: The average quantity of green house gas emissions associated with the life cycle of the product, a description of the green house offsets used to make the product green house gas neutral (climate neutral), and the name of the 3<sup>rd</sup> party organization

certifying such offsets.

9. Reclamation Plan: A reclamation plan shall be submitted providing directions for the reclamation of all carpet at the job which is to be returned to the carpet manufacturer for use in their reclamation / recycling methods.
  10. Operation and Maintenance Data: Operations and Maintenance Manuals will be submitted in accordance with the requirements of specification Section 01 78 23.00 06 EQUIPMENT OPERATING, MAINTENANCE, AND REPAIR MANUALS. Three copies of carpet manufacturer's maintenance instructions describing recommended type of cleaning equipment and material, spotting and cleaning methods, and cleaning cycles
- Warranty:
1. Manufacturer's standard performance guarantees or warranties including minimum fifteen (15) year wear warranty, two (2) year material and workmanship. The product warranty required herein must be provided directly by the carpet manufacturer.
    - a. Wear - Surface fiber wear shall not be more than 10% by weight in 15 years.  
(Note: Wear warranty shall not require use of chair pads)
    - b. Static - Static generation at less than 3.0 kV at 70° F, and 20% R.H.
    - c. No delamination
    - d. No edge ravel
    - e. No dimensional instability (i.e., shrinkage, curling and doming) which adversely affect the ability of the tile to lay flat
  2. Carpet and Rug Institute NVLAP: Submit manufacturer's CRI NVLAP certified test results to show that carpet meets or exceeds product performance specification criteria for carpet testing requirements.
- Extra Material:
1. Extra material from same dye lot / run consisting of full size carpet tiles shall be provided for future maintenance. A minimum of 5 percent of total square feet of each carpet type, pattern, and color and 20 lineal feet of base shall be provided.
- Products:
1. Carpet Type: Carpet shall be first quality; free of visual blemishes, streaks, poorly dyed areas, fuzzing of pile yarn, spots or stains, and other physical and manufacturing defects. Carpet materials and treatments shall be reasonably nonallergenic and free of other recognized health hazards. All grade carpets shall have a static control construction which gives adequate durability and performance.
  2. Physical Characteristics
    - a. Carpet Construction: Tufted
    - b. Type: Carpet Tile
    - c. Pile Type: Level-loop or Multilevel Texture loop
    - d. Pile Fiber: Commercial 100% branded (federally registered trademark) Type 6.6 Nylon or type 6 Nylon. Fiber must have a cross-section modification ratio no greater than 2.8.
    - e. Pile or Wire Height: Minimum .113 inches in accordance with ASTM D 418
    - f. Gauge or Pitch: Minimum 1/10 per inch in accordance with ASTM D 418
    - g. Stitches or Rows/Wires: Minimum 9 per sq. in.
    - h. Finished Pile Yarn Weight: Minimum 17 ounces per square yard. This does not include weight of backings. Weight shall be determined in accordance with ASTM D 418.
    - i. Pile Density: Minimum 5500
    - j. Dye Method: Solution dyed
    - k. Backing Materials: Primary backing materials shall be those customarily used and accepted by the trade for each type of carpet. Secondary backing to suit project requirements shall be those customarily used and accepted by the trade for each type of carpet. Secondary Backing shall contain minimum 30 percent post consumer and/or post industrial material content. Secondary backing must be 100 percent recyclable into carpet tile backing at the end of its

useful life. 100 percent Virgin PVC shall not be used in secondary backing.

- l. Antimicrobial: Antifungal and Antibacterial ASTM E 2471 Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet. Minimum allowable growth ratings for a “passing result” on washed and unwashed carpet samples after 72 hours incubation are complete to partial inhibition (high) on shaven primary and unshaven fiber layers. Or, if AATCC 174 Parts 2&3 (AATCC 171 Washed) is used, must pass both Part 2 and Part 3 of AATCC 174 with a minimum of 90% reduction both gram negative and gram positive bacteria and no macroscopic growth against the fungi. The antimicrobial preservative shall be incorporated into the product during the manufacturing process, not topically applied to the carpet.
- m. Attached Cushion for Command Suites only: Provide an attached cushion for Command Suites only. Do not exceed the maximum ash content of 50 percent when tested in accordance with ASTM D 297. Pass the accelerated aging test in accordance with [ASTM D 3676] [ASTM D 1667] for the cushion.
  - (1) Chemically frothed polyurethane with minimum weight of 18 oz/sq. yard, minimum density of 11 lb/cubic foot with minimum 30 percent post-consumer recycled content.
  - (2) Mechanically frothed polyurethane with minimum weight of 22 oz/sq. yard, minimum density of 14 lb/cubic foot, minimum thickness of 0.100 inch, and maximum compression resistance of 5 psi, and compression set of 15 percent in accordance with ASTM D 3676, with minimum 30 percent post-consumer recycled content.
  - (3) Ethylene vinyl acetate (EVA) with minimum weight of 28 oz/sq. yard, minimum thickness of 0.150 inch, and minimum density of 15 lb/cubic foot and a maximum compression set of 15 percent in accordance with ASTM D 1667, minimum 30 percent recycled content.
  - (4) Polyvinyl chloride (PVC) with minimum weight of 28 oz/sq. yard, minimum thickness of 0.150 inch, and minimum density of 15 lb/cubic foot and a maximum compression set of 15 percent in accordance with ASTM D 1667, minimum 30 percent recycled content.
  - (5) Minimum 30 percent recycled urethane foam.

Adhesives, Installation Connectors and Concrete Primer: Concrete primers for installation of carpet shall be waterproof, nonflammable, meet local air-quality standards, and shall be as required by the carpet manufacturer. Adhesives for installation of carpet shall be waterproof, nonflammable, meet local air-quality standards, and shall be as required by the carpet manufacturer. Release adhesive for modular tile carpet shall be as recommended by the carpet manufacturer. Adhesives flashpoint shall be minimum 140 degrees F in accordance with ASTM D 3278. Alternative Installation method to wet adhesive shall be pressure sensitive, odor free adhesive, non transferrable to floor and applied to carpet tile. Alternative adhesive method can be installed at 12 pH, up to 10 pounds and 95% relative humidity; save on remediation in high moisture applications.

2. Rubber or Carpet Base: Minimum four inch high Rubber Base per Section 09 65 00.00 48 RESILIENT FLOORING. Color as indicated. Carpet Wall Base may be used in Reserve Lodging Facilities and shall be ~~4-in~~ minimum four inch high, surged edge, cut from roll stock. Color shall match carpet.
3. Molding/Transition Strip: Molding and transition strips for the type of carpet being installed shall be provided. Molding and transition strips shall be heavy-duty rubber or homogeneous composition of polyvinyl chloride (PVC), high quality additives, and colorants. Floor flange shall be a minimum 2 inch wide. Transition strips shall be tapered to meet abutting materials. Color shall match resilient Wall base or carpet.
4. Installation Connectors: Installation of non-transferable adhesive applied to carpet tiles.
5. Color, Texture and Pattern: Color, textures, patterns and installation layout (such as monolithic, ashlar, quarter turned, etc) shall be as selected by the Architect and approved by the Government.

**Performance Requirements:**

1. ARR (Appearance Retention Rating): Carpet shall be tested and have the minimum 3.0-3.5 (Heavy) ARR when tested in accordance with either the ASTM D 5252 (Hexapod) or ASTM D 5417 (Vettermann) test methods using the number of cycles for short and long term tests as specified.
2. Static Control: Static control shall be provided to permanently control static buildup to less than 3.5 kV when tested at 20 percent relative humidity and 70 degrees F in accordance with AATCC TM 134.
3. Flammability and Critical Radiant Flux Requirements: Comply carpet with 16 CFR 1630. Carpet in corridors and exits shall have a minimum average critical radiant flux of 0.45 watts per square centimeter when tested in accordance with ASTM E 648
4. Tuft Bind: Tuft bind force required to pull a tuft or loop free from carpet backing shall be a minimum 10 pound average force for loop pile 3 pound average force for cut pile.
5. Colorfastness to Crocking: Dry and wet crocking shall comply with AATCC TM 165 and shall have a Class 4 minimum rating on the AATCC Color Transference Chart for all colors.
6. Colorfastness to Light: Colorfastness to light shall comply with AATCC TM 16, Test Option E "Water-Cooled Xenon-Arc Lamp, Continuous Light" and shall have a minimum 4 grey scale rating after 40 hours.
7. Colorfastness to Water: Comply colorfastness to water with AATCC 107 and with a minimum 4.0 gray scale rating and a minimum 4.0 transfer scale rating.
8. Delamination Strength: Delamination strength for tufted carpet with a secondary back shall be minimum of 2.5 lbs./inch
9. Antimicrobial: Nontoxic antimicrobial treatment in accordance with AATCC 174 Part I (qualitative), guaranteed by the carpet manufacturer to last the life of the carpet.
10. Moisture And Alkalinity Tests: Concrete slab shall be tested for moisture content and excessive alkalinity in accordance with CRI 104.

