SECTION J - 1503020 - PEST CONTROL
DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
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Attachment J-1503020-01 Definitions and Acronyms	
Definition/Acronym	**Description**
Arthropod	The group of animals that includes insects, spiders, ticks, mites, silverfish, and related organisms.
Callback	A request for additional service or retreatment following the initial service that has not provided the control required. Callbacks shall be provided at no additional cost to the Government.
Certified Applicator/ Operator	An individual who has completed an EPA approved training program that includes written examinations in core and specific application categories and is certified by the state, or host nation in which they are applying pesticides to do so without supervision.
Change of Occupancy Service (COS)	A service performed during the period of time after a resident checks out of assigned quarters and prior to a new resident taking occupancy ensuring the quarters are clean, fully equipped, operable and habitable.
Contractor's Work Plan (CWP) for Pest Control	The Contractor shall submit as part of their proposal and execute a CWP for pest control. The CWP shall adhere to applicable publications and directives contained in J-1503020-03 (Applicable Publications and Directives). The CWP will require approval by the Contracting Officer. The CWP shall establish the strategy and methods for conducting a safe, effective, and environmentally sound pest management program in compliance with these specifications. Prospective contractors may review the installation's historical records of pest activity and abatement actions, survey facilities and grounds, and consult with the Installation PMC in development of a plan. The CWP shall address continuous monitoring, pest response and removal procedures, record keeping, warranties, education and communication to installation personnel to prevent pests and disease vectors, bird control on applicable airfields and in hangars, etc. The IPM approach should use targeted (i.e., effective, environmentally sound) methods including habitat/facility modification, biological/genetic/cultural control, mechanical/physical control, and where necessary, the judicious use of least hazardous pesticides. The CWP shall include labels, MSDS sheets, planned pesticide use sheets and comply with all applicable Local, State, and Federal regulations, and the Installation PMP. As technology improves and new materials and methods become available, it may become necessary to alter the specifications of this contract to accommodate such changes which would reduce reliance on chemicals, or utilize safer materials. The Contractor shall recommend specification changes to the Contracting Officer whenever: (1) newer, safer, and more effective methods become available and (2) less toxic and less persistent pesticides become available.
Disease Vector	Any animal capable of transmitting the causative agent of a human disease. It is recognized that certain disease vectors are predominately nuisance or economic pests that as conditions change may require management or control as a disease vector.
Engineering Field Division Pest Management Consultant (EFD PMC)	The individual designated at the Engineering Field Division (EFD) as the professional, technical specialist having command program oversight responsibilities and providing guidance and information on the management of pest management programs for Navy and Marine Corps commands and installations.
Insect Growth Regulator (IGR)	Chemical substance that disrupts the action of insect hormones controlling molting, maturity from pupal stage to adult, and other growth functions for the purpose of insect control.
Integrated Pest Management Coordinator (IPMC)	The individual, fully trained in IPM principles and practice, designated by the installation commanding officer (CO) to coordinate and oversee all pest management activities at the installation.
Integrated Pest Management Plan (IPMP)	A required, written long-range, comprehensive planning and operational document that establishes the strategy and methods for conducting a safe, effective, and

Attachment J-1503020-01 Definitions and Acronyms	
Definition/Acronym	**Description**
	environmentally sound IPM program. IPM plans are a means of establishing and implementing installation pest management programs and function as the tool used to ensure compliance with applicable pest management laws and regulations.
Integrated Pest Management (IPM)	A planned program incorporating education, continuous surveillance, record keeping, and communication to prevent pests and disease vectors from causing unacceptable damage to operations, people, property, materiel, or the environment. IPM uses targeted, sustainable (effective, economical, environmentally sound) methods including habitat modification, biological, genetic, cultural, mechanical, physical, and regulatory controls; and when necessary, the judicious use of least hazardous pesticides.
Material Safety Data Sheet (MSDS)	A document (Occupational Safety and Health Administration (OSHA) Form 174, or equivalent) that accompanies a pesticide product, providing the handler with chemical information on ingredients, handling instructions, potential hazards, and manufacturer address and emergency contact information.
Medically Important Pest	Any animal capable of transmitting the causative agent of a human disease serving as an intermediate or reservoir host of a pathogenic organism producing human discomfort or injury, including (but not limited to) mosquitoes, flies, other insects, ticks, mites, snails, and rodents.
Mission Impact Pest	Pests that may adversely affect the DoD mission or military operations; the health and well-being of people; or structures, material, or property.
Nuisance Pests	Arthropods, and other organisms, that do not cause economic damage or adversely affect human health, but which on occasion do cause annoyance.
Pest Management Performance Assessment Representative (PMPAR)	A DoD employee trained in pest management, who protects the government's interest through on-site performance assessment (PA) of commercial pest management contracts or other contracts that involve the use of pesticides.
Pest Management	The prevention and control of disease vectors and pests that may adversely affect the DoD mission or military operations; the health and well-being of people; or structures, material, or property.
Pest Management Consultant (PMC)	A professional, with a degree in a biological science, who has rigorous college-level entomology training, such as a NAVFAC civilian entomologist (applied biologist) or Bureau of Medicine and Surgery (BUMED) commissioned medical entomologist who has command program oversight responsibilities and provides guidance and information on the management of pest management programs for commands and installations.
Pesticide	Any substance or mixture of substances, including biological control agents, registered by EPA under FIFRA intended to destroy, repel, or mitigate pests. Includes insecticides, rodenticides, herbicides, fungicides, plant regulators, defoliants, desiccants, disinfectants, anti-fouling paints, and biocides (such as water treatment chemicals). NAVFAC pest management consultants do not approve disinfectants or biocides.
Pesticide Facility	The building and areas designated for handling, storing, and mixing of pesticides.
Pests	Any organism (except for micro-organisms that cause human or animal diseases) that adversely affects operations, preparedness, the well-being of humans or animals, real property, materiel, equipment or vegetation, or is otherwise undesirable.
Registered Pesticide	A pesticide registered by EPA for sale and use within the United States.
Road Mile/Kilometer	A unit of measure for measuring fogging application for adult mosquito control using a vehicle mounted Ultra Low Volume (ULV) aerosol generator traveling along a given route for a distance of 5,280 feet/1,000 meters.

Attachment J-1503020-01 Definitions and Acronyms	
Definition/Acronym	**Description**
Surveillance	Thorough inspections or surveys conducted before or after pest management treatments or on a regular basis to determine the presence and prevalence of pests or disease vectors.
Time Period to Maintain Control	A frequency specified on each Pest Group Sheet that is the minimum time the Contractor shall maintain control of pest(s) after reaching the specified level of control.
Time Period to Obtain Control	A frequency specified on each Pest Group Sheet that is the maximum time allotted for the Contractor to obtain control of pest(s) per the specified level of control.
Time Period to Respond	A frequency specified on each Pest Group Sheet that is the maximum time the Contractor is permitted to respond to a trouble call.

Attachment J-1503020-02
New Pesticide Request

New Pesticide Request

Please enter the pesticide you would like added to the approved pesticide list.

Pesticide Trade Name		
Formulation		
Pesticide Active Ingredient	Active Ingredient	Concentration
	☐ Check here if the pesticide comes in packets/ stations/ briquets/ other, enter the Weight per Unit in the third column:	
EPA Registration # or Other #		
If the pesticide is classified as a 25b pesticide, enter "25 (b) exempt" as the EPA Number.		
Pesticide Type		
Signal Word		
Restricted Use	☐	
Comments		

Planned Pesticide Use (PPU) Sheet

1. Activity Name (UIC): _____

2. Objective

A. Target Pest:

☐ Agricultural Insects	☐ Filter and Drain Flies	☐ Mosquitoes - Adult
☐ Algae and Aquatic Weeds	☐ Fire Ants	☐ Mosquitoes - Larval/pupal
☐ All Pests (Surveillance only)	☐ Fish	☐ Nematodes
☐ Ants, nuisance	☐ Fleas	☐ Opossums
☐ Aphids	☐ Fox	☐ Other Pests
☐ Bats	☐ Fruit Flies	☐ Phragmites
☐ Bed Bugs	☐ Gophers	☐ Pillbugs and Sowbugs
☐ Bees	☐ Grasses	☐ Raccoons
☐ Birds	☐ Ground Beetles	☐ Rats
☐ Broad-leaved Weeds	☐ Ground Squirrels	☐ Scale Insects
☐ Brush	☐ Groundhogs	☐ Scorpions
☐ Carpenter Ants	☐ Gypsy Moths	☐ Silverfish
☐ Carpenter Bees	☐ Horse and Deer Flies	☐ Snakes
☐ Caterpillars	☐ House and Filth Flies	☐ Spiders
☐ Cats	☐ Japanese Beetles	☐ Squirrels
☐ Centipedes and Millipedes	☐ Lice	☐ Stored Product Pests
☐ Cockroaches	☐ Lizards	☐ Subterranean Termites
☐ Crickets	☐ Mice	☐ Ticks, Chiggers and Mites
☐ Darkling Beetles	☐ Midges, Sand and Black Flies	☐ Turf/Ornamental Insects
☐ Decay Fungi	☐ Mites	☐ Vertebrates, miscellaneous
☐ Disease of Ornamentals and Turf	☐ Mixed Grasses and Weeds	☐ Wasps and Hornets
☐ Dogs	☐ Mole Crickets	☐ Wood Boring Beetles
☐ Drywood Termites	☐ Moles	☐ Woody Vegetation
☐ Earwigs	☐ Mosquitoes	

B. Purpose:

☐ AGRICULTURE	☐ INVASIVE SPECIES CONTROL	☐ PREVENT STRUCTURAL DAMAGE
☐ APPEARANCE	☐ LAWN/TURF DAMAGE	☐ PROTECT ORNAMENTAL PLANTS
☐ APPEARANCE/DRAINAGE	☐ LAWN/TURF PESTS	☐ SECURITY
☐ BARE GROUND	☐ LAWN/TURF PROTECTION	☐ STING PREVENTION
☐ BARE GROUND/SECURITY	☐ MAINTENANCE	☐ SURVEILLANCE
☐ DECREASE MOWING	☐ NUISANCE	☐ WEED CONTROL
☐ DRAINAGE	☐ NUISANCE/HEALTH	☐ WILD LIFE MANAGEMENT
☐ HEALTH PROTECTION		

3. Pesticide

A. Trade Name:

B. Common Name: (Optional)

C. EPA Reg. No.:

D. Formulation:

E. Applicator: (Optional)

4. Application

A. Site:

5. Sensitive Areas:

- ☐ NA
- ☐ Agricultural crops
- ☐ Aquatic
- ☐ Bee hives
- ☐ CDC/Schools
- ☐ Critical habitat
- ☐ Endangered species habitat
- ☐ Food service areas
- ☐ Hospital/Clinic
- ☐ Wetlands
- ☐ Other

6. Remarks

Submit

Attachment J-1503020-03
References and Technical Documents

The Contractor shall adhere to the applicable portions of the current edition of the following publications and directives in performing the services required under this contract:

- Armed Forces Pest Management Board TG No. 11, Hydrogen Phosphide Fumigation of Subsistence with Aluminum Phosphide
- Armed Forces Pest Management Board TG No. 14, Protective Equipment for Pest Control Personnel
- Armed Forces Pest Management Board TG No. 15, Pesticide Spill Prevention and Management
- Armed Forces Pest Management Board TG No. 18 Installation Pest Management Program Guide
- Armed Forces Pest Management Board TG No. 27, Stored-Product Pest Monitoring Methods
- Armed Forces Pest Management Board TG No. 29, Integrated Pest Management In and Around Buildings
- Armed Forces Pest Management Board TG No. 37, Guidelines for Reducing Feral/Stray Cat Populations on Military Installations in the United States
- Department of Defense Directive 4150.07, Department of Defense Pest Management Program
- Executive Order 12088, Prevention, Control, and Abatement of Environmental Pollution at Federal Installations
- Federal Aviation Regulation, Part 137, Agricultural Aircraft Operations
- OPNAV Instruction 6250.4C, Navy Pest Management Programs
- OPNAVINST 5090.1, Environmental Readiness Program Manual, Chapter 24: Pesticide Compliance Ashore
- 42 U.S.C. 4321 et seq., National Environmental Policy Act (NEPA)
- 7 U.S.C. 136 et seq., Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended
- 16 U.S.C. 1531 et seq., Endangered Species Act
- 42 U.S.C. 6901 et seq., Resource Conservation and Recovery Act (RCRA)
- US Air Force Model Pesticide Reduction Plan (July 1996)

ATTACHMENT J-1503020-04
FIELD PEST MANAGEMENT RECORD FORM

Instructions: A separate form shall be filled out for each pest management operation. Please "print" responses for Numbers 1-9.

1. Date of Application:

2. Location: 2a. Inside or Outside (circle one)

2b. Facility name and/or building #:

3. Type of Pest Control Operation:

4. Site Description:

5. Pest:

6. Area Treated:

[Include unit: SF (square feet), LF (linear feet), AC (acre), CF (cubic feet), EA (each - for baiting only)]

7. Applicator's Name:

8. Pesticide Used:

8a. Pesticide Trade Name:

8b. Pesticide Active Ingredient:

8c. EPA or Country Registration #:

8d. Formulation:

8e. Quantity of pesticide applied:

[Include unit: FL (fluid ounce), GA (gallon), ML (milliliter), LT (liter), LB (pound), DR (dry ounce), GR (gram), KG (kilogram)]

8f. Final Concentration Applied (%):

9. Comments: (Survey results, wind conditions, sanitation deficiencies, etc.)

10. Signature of Applicator:

11. Certification # of Applicator:

ATTACHMENT J-1503020-05
GOVERNMENT FURNISHED EQUIPMENT AND MATERIALS

Description	Quantity
Mosquito ULV sprayer - ADAPCO model #95ES Ser.#0648	1
New Jersey Mosquito light traps	4

Attachment J-1503020-06
Service Level Standards

The table below applies to all Region facilities/spaces listed in the Frequencies for Scheduled Work provided in J-1503020-07. The Contractor shall price work requirements as detailed per Service Level Standards in the corresponding ELIN listed in J-0200000-11.

Mission Impact Pests[1] **–** Routine surveillance and treatment is conducted in accordance with the IPMP.

Structure Damaging and Public Health Pests – Routine surveillance and treatment is conducted in accordance with the IPMP.

Lawn Turf and Ornamental Plant Pests – No surveillance in any grounds areas and treatment in prestige areas is conducted in response to customer complaints only. No treatment in improved grounds areas.

Nuisance Pests[2] – Routine surveillance and treatment conducted in accordance with the IPMP is limited to Child and Youth Program facilities, food handling and dining facilities, and administrative areas. No surveillance in operational areas. Treatment of operational areas is conducted in response to customer complaints only.

Note 1: Mission impact pests are indicated on the Frequencies for Scheduled Work provided in J-1503020-07.

Note 2: All Vertebrate pests are treated as Nuisance Pests unless otherwise specified.

Attachment J-1503020-07
Frequencies for Scheduled Work

The following buildings will be surveyed on the specified frequencies and treated as indicated on the pest group sheets:

Customer	Facility No.	Area (SF)	Facility Description	Mission Impact Pests	Frequency
LB	1513	2,294	LB Fire Station		M
LB	1617	14,645	LB Seven Day Store		M
LB	1623	19,845	LB Youth Center		M
LB	1632	5,653	MCCS Family Services		M
MCAS	431	86,431	BOQ		M
MCAS	553	13,084	Afterburners/Subway		SM
MCAS	554	17,618	Officer's Club		SM
MCAS	566	9,724	Chapel		M
MCAS	585	13,382	MAG Headquarters		M
MCAS	595	20,493	Fire Department		M
MCAS	596	28,969	Training Bldg.		M
MCAS	597	16,551	Theater		M
MCAS	598	22,404	Medical/Dental		M
MCAS	601	24,136	Headquarters		M
MCAS	790	11,811	Bowling Alley		M
MCAS	1108	23,217	TLF		M
MCAS	1142	27,594	Child Development Center		SM
MCAS	1283	3,000	Cafeteria/Hanger 1		SM
MCAS	1313	13,300	Crash Crew		M
MCAS	2080	39,619	Mess Hall		SM
MCAS	3012	50,367	Gym		M
TBR	1	1863	Range Maintenance Shop-Comm		M
TBR	2	240	Water Supply Bldg./Pump House		M
TBR	3	3081	Range Control Center-Admin		M
TBR	4	182	Observation Tower-Flank		M
TBR	6	4961	Vehicle/Target Maintenance Shop		M
TBR	10	4560	Covered Vehicle Wash Rack		M
TBR	11	480	Open Storage Area		M
TBR	14	576	Observation Tower		M
TBR	19	144	Visitor's Restroom		M
TBR	20	555	Control Tower		M

M = Monthly
SM = Semi-Monthly

Attachment J-1503020-08 Nuisance Pest Requirements		
Pest Group Number	**Pest Group Name**	**General Requirements**
001	Ant Control	Prevent and control ants in and around buildings and structures.
002	Arthropod Control in Food Handling Establishments	Prevent/control all arthropod pests in food handling establishments. Arthropod pests include, but are not limited to, cockroaches, ants (excludes fire ants which are covered under a separate pest group), silverfish, centipedes, ground beetles, fleas, spiders, stored product pests, etc.
003	Cockroach Control	Prevent and control all cockroaches.
004	Flea Control in and Around Buildings and Structures	Control flea infestations in and around buildings and structures.
005	Miscellaneous Arthropod Pest Control	Prevent and control nuisance arthropod pests in and around buildings and structures. Includes but is not limited to spiders, silverfish, scorpions, crickets, centipedes, millipedes, box elder bugs, parasitic or biting mites, beetles, etc. (Excludes ants, cockroaches, filth flies, and bees/wasps/hornets covered in separate sections.)
006	Stored Product Pest Control (Arthropods)	Control and prevent stored product pests at designated sites.

Attachment J-1503020-08
Nuisance Pest Requirements

Performance Standards						
Pest Group Number	**Pest Group Name**	**Time Period to Respond[1]**	**Time Period to Obtain Control[2]**	**Time Period to Maintain Control**	**Level of Control[3]**	**Notes See Below**
001	Ant Control	7 days	30 days	30 days	100% control	1, 2, 3, 4
002	Arthropod Control in Food Handling Establishments	24 hrs.	7 days	28 days	Retreatment required if: -Cockroaches: 4 or more adults or nymphs or 1 egg capsule per room -Ants: 4 or more -Centipedes/Spiders: 1 or more -Other Arthropods: 3 or more	1, 2, 3, 4
003	Cockroach Control	3 days	7 days	30 days	Retreatment required if: 4 or more adults or nymphs or 1 egg capsule per room	1, 2, 3, 4
004	Flea Control	2 day	7 days	30 days	100% control	1, 4, 5
005	Miscellaneous Arthropod Pest Control	7 days	10 days	30 days	Sensitive areas:100% control Mites: 100% control Retreatment required if: - Food Handling: 3 or more arthropods/room/survey - Offices/Admin: 3 or more arthropods/room/survey - Industrial Areas: 5 or more arthropods/room/survey - Outdoors: 5 or more arthropods in a 100 square foot area	4
006	Stored Product Pest Control	3 days	24 hrs.	30 days (residual) 7 days (ULV)	Sighting of any exposed, living, stored product pest(s) after 72 hours shall require retreatment	1, 4, 5, 6

Superscript:

1. After notification.
2. After first control action.
3. Based on performance assessment (i.e., surveys, customer complaints).

Notes:

1. Regularly scheduled, periodic pesticide applications are not approved for DoD property.
2. Liquid, dust, or aerosol pesticide formulations shall not be applied indoors when food is exposed or spaces are occupied.
3. Treatment of areas outside or adjacent areas to the designated area does not constitute an added service call or charge.
4. Report conditions conducive to pest infestation to the COR and PAR within one working day following survey.
5. Coordinate with residents/building personnel on specific treatment and re-entry times.
6. The ULV machine shall be calibrated for generating proper droplet sizes and range before starting any work under this contract and thereafter every 90 days or every 50 hours of use, whichever comes first. Maintain a log of ULV machine hour use.

Attachment J-1503020-09
Public Health Pest Requirements

Pest Group Number	Pest Group Name	General Requirements
007	Adult Mosquito Control	Application of a mosquito adulticide (ULV Formulation) at designated sites when directed by COR.
008	Adult Mosquito Surveillance	Survey for adult mosquitoes using light trap(s) and deliver catches to Installation Preventive Medicine.
009	Bee, Wasp, Hornet, and Stinging Arthropod Control	Control stinging arthropod infestations in and around buildings, structures, and areas. Pests include, but are not limited to, bees, wasps, hornets, cicada killers, yellow jackets, and solitary wasps (mud daubers, umbrella wasps).
010	Childcare Facilities/Sensitive Areas Pest Control (Includes: Schools, Hospital, Veterinary Clinic and Kennels, Child Development Center, Youth Activities Center)	Control all nuisance arthropod pests (including, but not limited to), cockroaches, ants, silverfish, spiders, crickets, flies, centipedes, box elder bugs, mites, bees, wasps, other venomous arthropods, AND all species of rodents in areas where children frequent including child care, schools, day care, nurseries and other locations as designated.
011	Filth Fly Control	Prevent and control filth flies including house flies, flesh flies, bottle flies, blow flies, fruit flies, and other related insects that breed or are attracted to garbage and trash in area designated by the COR. Identify source, if applicable.
012	Larval and Pupal Mosquito Control	Control of larval and pupal mosquitoes in designated area(s) when directed by COR (medical personnel determine when to control).
013	Larval Mosquito Surveillance	Survey designated mosquito breeding sites for immature mosquitoes (eggs, larvae, and pupae) and deliver catches to Installation Preventive Medicine.
014	Tick Survey and Control Outdoors	Survey for and control of ticks outdoors.
015	Fire Ant Control	Prevent and control fire ants indoors and outdoors. Sites include all improved, operational areas and other designated sites.
016	Bed Bug Control	Control bed bugs that can cause bites or allergic reactions, be a nuisance, and affect morale and quality of life. Can be carried on board ship from infested barracks.

Performance Standard

Pest Group Number	Pest Group Name	Time Period to Respond	Time Period to Obtain Control	Time Period to Maintain Control	Level of Control	Notes See Below
007	Adult Mosquito Control	24 hrs.	N/A	N/A	ULV application performed as per specifications	7, 9
008	Adult Mosquito Surveillance	7 days[1]	Weekly during mosquito season	Duration of mosquito season[§]	Based on a Government risk assessment, surveillance shall be performed on at least one night per week with both positive and negative results being reported weekly to the KO or COR, and Installation Preventive Medicine Department. Traps shall be set prior to sunset and picked up after sunrise.	See Pest Group 008: Adult Mosquito Surveillance Below

Attachment J-1503020-09 Public Health Pest Requirements						
009	Bee, Wasp, Hornet, and Stinging Arthropod Control	4 hrs.	24 hrs. (stinging hazard) 2 days (nest removal)	28 days	100% control	2, 4
010	Childcare Facilities/Sensitive Areas Pest Control	2 days; Same day (venomous)	Varies[2]	28 days	100% control	1, 2, 3, 4, 5, 6
011	Filth Fly Control	2 days	2 days	30 days	Indoors: 100% control Retreatment required if: -Outdoors/Dumpsters: 10 or more adults or immatures -Outdoors: 5 or more adults or immatures	1, 2, 3, 4
012	Larval and Pupal Mosquito Control	24 hrs.	7 days	30 days	Consult Preventive Medicine for number	10
013	Larval Mosquito Surveillance	Within 14 days of 1st day of month[§]	Every 2 weeks after mosquito increase[§]	Duration of increased mosquito population[§]	Surveillance shall be performed every two weeks and both positive and negative results shall be reported to the KO and installation Preventive Medicine Department	See Pest Group 013: Larval Mosquito Surveillance Below
014	Tick Survey and Control Outdoors	3 days	3 days	28 days	Retreatment required if: Improved areas: 3 or more ticks seen or 3 customer complaints Semi-Improved Area or Unimproved Area: 10 or more ticks by survey, 3 customer complaints, or 3 ticks seen	6
015	Fire Ant Control	Immediately (indoors) 1 day (outdoors)	1 day (indoors) 5 days (outdoors)	30 days	Indoor: 100% control Outdoors: - Critical areas: less than 1 mound/colony per acre - Non-critical areas: less than 3 mounds/colonies per acre	1, 2, 3, 4
016	Bed Bug Control	24 hrs.	7 days	60 days	100% control	1, 2, 3, 4, 6

Superscript:

1. As determined by the Government.
2. Indoors: Occasional Arthropod Invaders – same visit; Rats/Mice – 10 days; Cockroaches/Ants – 10 days; Arthropods/Rodents in "Adjacent Areas" – 7 days; Outdoor Play Yard: Ants – 7 days; Small Venomous Arthropods – same day; Outdoor/Non-Play Yard: All Pests – In accordance with applicable "Pest Group" part of contract except that venomous arthropods must be controlled in two calendar days

Notes:

1. Regularly scheduled, periodic pesticide applications are not approved for DoD property.
2. Liquid, dust, or aerosol pesticide formulations shall not be applied indoors when food is exposed or spaces are occupied.
3. Treatment of areas outside or adjacent areas to the designated area does not constitute an added service call or charge.
4. Report conditions conducive to pest infestation to the KO or COR within one working day following survey.
5. Pesticide applications shall not be made during hours of operations or when children are present at schools, child development centers, and youth activity centers.
6. Coordinate with residents/building personnel on specific treatment and re-entry times.
7. The ULV machine shall be calibrated for generating proper droplet sizes and range before starting any work under this contract and thereafter every 90 days or every 50 hours of use, whichever comes first. Maintain a log of ULV machine hour use.
8. Aerial applications of pesticides require validation and approval by a pest management consultant.
9. The adulticide is applied at maximum label rate for the adulticide used.
10. The KO or COR shall designate areas where mosquito larva should be controlled on a map supplied by the government. The areas may be intermittent water (developed from surveys for larval breeding sites), or permanent water sites

Pest Group 008: Adult Mosquito Surveillance

Equipment Provider: The Contractor shall provide the mosquito trap(s) and all other equipment (as needed) to complete mosquito survey(s) as directed by the KO or COR. All cost for procurement of equipment (including traps, batteries, extension cords, light bulbs, collection bags, etc.) shall be included in the bid price for this service and does not constitute grounds for any added charge under any other part of this contract.

Trap Design: Type of trap will be determined by the target mosquito species. The installation Preventive Medicine Department can provide information on local nuisance and vector mosquitoes. New Jersey light traps (or equal), CDC light traps (or equal), gravid traps, BG sentinel, or other commercially purchased light trap designs deemed acceptable to the Armed Forces Pest Management Board (AFPMB), shall be used. The Government may or may not provide electricity at the site where the KO designates that the light traps shall be placed. If no electricity is available, battery operated units shall be used. Battery operated units may be used even if electricity is provided. The government shall not supply batteries. Use the same trap design at the same location throughout the course of this contract.

Trap Placement: Traps shall be placed so as to effectively collect and measure the target mosquito population. The Government may determine trap locations.

Trapping Frequency: Traps shall be set twice each week (weather permitting). If weather is inappropriate for trapping (heavy rain or consistent winds above 15 MPH), perform trapping on the night following the scheduled night (or the next appropriate night). Conduct adult mosquito trapping in accordance with the weekly schedule.

Survey Data: At a minimum, the Contractor shall count the total number of mosquitoes in the trap and record the number on the Adult Mosquito Catch Form.

Disposition of Mosquitoes: Consult with the installation Preventive Medicine Department to determine if mosquito collections should be saved for identification and testing. If the mosquitoes are to be retained, then the following method should be used. Immobilize and kill mosquitoes and other arthropods by placing in the trap

container in a freezer or using another suitable method that does not destroy the specimens (e.g. do not immerse in alcohol). (Mosquitoes collected for testing (e.g. West Nile Virus) may require specific handling; consult with the Preventive Medicine Department.) Place trap contents in a paper or cardboard container and label with time, date, location collector's name and contact information. Deliver to personnel designated by the KO to receive the mosquito trap collection. If mosquitoes do not need to be kept, then they should be disposed.

Reporting Adult Mosquito Collections: The Contractor shall complete the number of samples designated by the Government and record (in legible handwriting) the results of the survey for each location sampled. The Contractor shall note the date and time of collection, the number of mosquitoes collected per sample site, type of breeding source, notes regarding the sampled mosquitoes, and sum or average the totals. The COR may provide a collection form (Adult Mosquito Catch Form) on which the survey results are recorded. Records shall be reported on the collection form and submitted weekly during surveillance to the COR and the installation Preventive Medicine Department.

The action threshold for adult mosquito control shall be:

Vector species of concern	Adult Trap Surveillance
Aedes aegypti	≥5 males or females per CDC or BG Sentinel trap per night
Aedes albopictus	≥5 males or females per CDC or BG Sentinel trap per night
Aedes vexans	≥5 males or females per CDC or BG Sentinel trap per night
Ochlerotatus sollicitans	≥100 females per CDC or Gravid trap per night
Ochlerotatus taeniorhynchus	≥100 females per CDC or Gravid trap per night
Anopholes crucians	≥50 females per CDC or Gravid trap per night
Culex nigripalpus	≥50 females per CDC or Gravid trap per night
Culex quinquefasciatus	≥50 females per CDC or Gravid trap per night

NOTE: Action thresholds may be changed on advise of a BUMED entomologist

Vector species of concern	Primary diseases of concern
Culiseta melanura	Eastern equine encephalitis (EEE), West Nile Virus (WNV)
Culex pipiens complex	EEE, St. Louis encephalitis, WNV
Culex nigripalpus	EEE, St. Louis encephalitis, WNVadult mosquitoes per trap>>

The base Preventive Medicine Technicians shall be consulted before any control takes place.

Pest Group 013: Larval Mosquito Surveillance

Equipment: The Contractor shall provide all equipment (as needed), to complete the assigned task(s) including, but not limited to, ladders, asepto syringes, boots, dippers, notebooks, etc. (as applicable). The Contractor shall sample for immature mosquitoes on the schedule designated by the KO or COR.

Survey Designated Mosquito Breeding Sites (Areas designated by the ACO or Contract Specifications): Areas shall be designated by the KO or COR for non-recurring work, and by maps for recurring work. In the designated area(s), there may be differing aquatic environments to sample from including but not limited to, wetlands, standing pools of water, tree holes, artificial containers, clogged rain gutters, land depressions with temporary pools, floodwater plains, standing ponds, underground or aboveground storm water catch basins, swamps, drainage ditches, tire dumps, recycling areas, or any area where mosquitoes can breed. It is the responsibility of the Contractor to survey all potential mosquito breeding sites within the designated area(s).

Previous Experience: Larval mosquito surveys are very technique sensitive. Only Contractor personnel, with significant previous experience sampling for immature mosquitoes, shall perform larval surveys.

Survey Techniques:

Attachment J-1503020-09 Public Health Pest Requirements
In larger bodies of water such as ponds, lakes, catch water basins, etc., perform surveys around the water perimeter using a standard larval mosquito dipper (style and type approved by the Installation Preventive Medicine Department and the COR). Complete a sufficient number of dips to develop an accurate average dip count for the body of water (e.g. 10 dips/sampling station). Different species of mosquito larvae must be surveyed using different dipping techniques. It may be necessary to proceed carefully, or to act swiftly depending on the species being sampled, as water disturbance or casting shadows could result in the larvae diving to the bottom. It is the Contractor's responsibility to know the proper sampling technique(s) for the mosquito species present. In smaller water bodies such as rain gutters, artificial containers, tree holes etc., samples shall be taken using an appropriate collection device. Reporting Larval Mosquito Collections: The Contractor shall record (in legible handwriting) the results of the survey for each location sampled. The Contractor shall complete the number of samples designated by the KO for each location. The Contractor shall note the date and time of collection, the number of immature mosquitoes collected per sample site, type of breeding source, notes regarding the sampled mosquitoes, and sum or average the totals. The KO may provide a collection form on which the survey results are recorded. Records shall be reported on the collection form and submitted every two weeks during surveillance to the KO and the installation Preventive Medicine Department.

Attachment J-1503020-10
Structure Damaging Pest Requirements

Pest Group Number	Pest Group Name	General Requirements
016	Other Wood Destroying Organisms (Non-Termite) Control	Prevent, manage, and control non-termite wood destroying organisms including, but not limited to powder post beetles (Lyctids and Bostrichids), Anobiids (furniture and deathwatch beetles), old house borer, carpenter ants, and carpenter bees.
017	Survey for Termite and Wood Destroying Organisms	Survey for all termite species and other wood destroying organisms including fungal rots, carpenter ants, and wood boring beetles.

Performance Standard

Pest Group Number	Pest Group Name	Time Period to Respond[1]	Time Period to Obtain Control[2]	Time Period to Maintain Control	Level of Control[3]	Notes See Below
016	Other Wood Destroying Organisms (Non-Termite) Control	10 days	30 days	365 days	100% control	1, 2, 5
017	Survey for Termite and Wood Destroying Organisms	Same day (swarming) 7 days (not swarming)	N/A	2 Working Days (submit report)	N/A	2, 3, 4 See Pest Group 017: Termite and Wood Decay Inspection Below

Superscript:

1. After notification.
2. After first control action.
3. Based on performance assessment (i.e., surveys, customer complaints).

Notes:

1. Liquid, dust, or aerosol pesticide formulations shall not be applied indoors when food is exposed or spaces are occupied.
2. Report conditions conducive to pest infestation to the COR within one working day following survey.
3. Use the Termite and Wood Decay Inspection - DD Form 1070 and submit report to the KO and COR within two working days following survey.
4. Follow Termite Control Specifications (below) for termite management.
5. If the infestation is a beetle species that will not reinfest seasoned dead wood, treatment shall not be performed. Provide a report to the KO and COR within two working days following survey detailing the species of beetle and the fact that it will not reinfest seasoned dead wood. This should refer to parasitic or biting mites only, e.g. bird mites, chiggers.

DD FORM 1070

TERMITE AND WOOD DECAY INSPECTION (Use with Pest Group Sheet 019) (DD Form 1070)	DATE INSPECTED	BUILDING NUMBER

INSTALLATION	TYPE BUILDING	INSPECTOR
	PERM | | TEMP	

I. FAVORABLE TERMITE AND FUNGI INFESTATION CONDITIONS

	WOOD IN CONTACT WITH SOIL		POOR VENTII ATION UNDER BUILDING
	FORM BOARDS LEFT IN CONCRETE		WATER COLLECTIONS UNDER BUILDING
	WOOD MEMBERS SET IN CONCRETE FLOOR		VINES AND SHRUBS AGAINST BUILDING

Attachment J-1503020-10
Structure Damaging Pest Requirements

	WOOD STEPS IN CONTACT WITH SOIL		LEAKY PLUMBING IN PUTTING
	WOOD STEPS WITHOUT SHIELDS		WOOD SCRAP PILED TINDER BUILDING
	WOOD SIDING IN CONTAI.T WITH SOIL		LOOSE WIRE IN CONTACT WHH SOIL
	PIPES IN CONTACT WITH SOIL AND WOOD	OTHER *(Specify)*	
	NO SHIELDS ON FOUNDATION		
	FAULTY TERMITE SHIELD		

II. LOCATION OF INFESTATIONS

	FOUNDATION TIMBERS		BASEBOARDS
	WOOD PILLARS		DOOR FRAMES
	SILLS		WINDOW FRAMES
	CROSS BEAMS		STEPS
	FURNITURE		ROOF
	FLOOR JOIST	OTHER *(Specify)*	
	FLOOR		
	STUDS		

III. TYPE OF TERMITE				IV. TYPE OF FUNGI				V. DAMAGE			
	SUBTER-RANEAN		NONSUBTER RANEAN		WOOD DECAY		W000 STAINING		STRUCTURAL WEAKENING		SUPERFICIAL	ESTIMATED COST

VI. REPAIR AND TREATMENT

TYPE	RECM	ACCOMP	TYPE	RECM	ACCOMP
REMOVAL OF WOOD FROM SOIL CONTACT			REPAIR OF TERMITE SHIELDS		
SEALING CRACKS IN CONCRETE			REMOVAL OF CONCRETE FORMS		
POINTING UP POOR MORTAR			REMOVAL OF VINES AND SHRUBS		
LOWERING GRADE LEVEL			REMOVAL OF WOOD TRASH		
CAPPING CONCRETE FOUNDATION			OTHER *(Specify)*		
IMPROVING DRAINAGE UNDER BUILDING					
IMPROVING VENTILATION UNDER BUILDING					

VII. CHEMICAL CONTROL

APPLICATION OF POISON DUST TO SHELTER TUBES YES ☐ NO ☐			CHEMICAL USED			
SOIL POISON YES ☐ NO ☐			TRENCH DEPTH	LINEAR FEET	CHEMICAL USED	
REPLACEMENT OF DAMAGED WOOD YES ☐ NO ☐	NO. OF M BD FELT REPLACED	UNTREATED	DIPPED	SOAKED	SPRAYED	PRESSURE TREATED
DRILLING AND FLOODING TREATMENTS YES ☐ NO ☐			CHEMICAL USED			
WOOD INJECTION FOR DRY WOOD TERMITE YES ☐ NO ☐			CHEMICAL USED			

VIII. COST

LABOR	MATERIAL	OTHER	TOTAL

IX. TREATMENT EFFECTIVENESS

DATE	REMARKS	INSPECTOR
DATE	REMARKS	INSPECTOR
DATE	REMARKS	INSPECTOR
DATE	TITLE OF INDIVIDUAL AFFECTING REPAIR AND TREATMENT	SIGNATURE

Attachment J-1503020-11
Lawn Turf and Ornamental Plant Pest Requirements

Pest Group Number	Pest Group Name	General Requirements
018	Mole Cricket Control	Control mole crickets in lawns.
019	Turf and Ornamental Pest Control	Control arthropod pests in turf and on ornamental plantings.

Performance Standard

Pest Group Number	Pest Group Name	Time Period to Respond[1]	Time Period to Obtain Control[2]	Time Period to Maintain Control	Level of Control[3]	Notes See Below
018	Mole Cricket Control	7 days	7 days	60 days	2 mole crickets or less/4 ft^2 Retreatment, if required, shall be performed at one-week intervals until the required Level of Control is established	2, 3
019	Turf and Ornamental Pest Control	5 days	7 days	60 days	No turf pests after 1 week Retreatment required if: - 3 or more leaf feeding arthropods on 20 leaves surveyed, OR - 3 or more bagworms on 20 evergreen branches surveyed, OR - 3 or more scale insects on 5 tree branches surveyed, OR - 3 or more scale insects on 6 ornamental branches surveyed, OR - Defoliation of 10% or more of the plant compared to a previous observed status, OR - General, noticeable physical decline of a plant that is caused by a pest, disease, or other damaging biotic agent.	1, 3, 4

Superscript:

1. After notification.
2. After first control action.
3. Based on performance assessment (i.e., surveys, customer complaints).

Notes:

1. Report conditions conducive to pest infestation to the COR within one working day following survey.
2. The Contractor may provide irrigation if required at no additional cost. Water for irrigation may be made available for the Contractor's use at fire hydrants located throughout the activity area; however, the COR should be contacted prior to their use.
3. Post/Notify as required by applicable state/local regulations.
4. Misapplication to target areas, or drift, runoff or other off-target effects that kill or damage any vegetation shall result in the Contractor replacing that vegetation at no charge to the Government.

Attachment J-1503020-12
Vertebrate Pest Requirements

Pest Group Number	Pest Group Name	General Requirements
020	Bat Control in Buildings	Control/exclude bats from buildings in accordance with state regulations.
021	Commensal Rodents In and Around Buildings and Structures	Prevent and control rodents indoors or within 75 linear feet of the exterior walls of designated buildings and structures. Rodent pests include, but are not limited to Norway rats, roof rats, house mice, field mice, groundhogs (woodchucks) and other marmots. Service requires removal of dead animals.
022	Pest Bird Control (including Bird Aircraft Strike Hazard reduction activities)	(1) Prevent and control birds inside and outside buildings/structures, and (2) Prevent and control birds roosting/nesting on aircraft operation areas.

Performance Standard

Pest Group Number	Pest Group Name	Time Period to Respond[1]	Time Period to Obtain Control[2]	Time Period to Maintain Control	Level of Control[3]	Notes See Below
020	Bat Control in Buildings	Same day	1 day (single bat) 5 days (community)	7 days (single bat) 90 days (community)	100% control	2, 4, 5, 11
021	Commensal Rodents	1 day (indoors) 3 days (outdoors)	10 days (indoors) 30 days (outdoors)	30 days	100% control Retreatment required if rodent signs are identified after treatment	1, 2, 3, 4
022	Pest Bird Control (including Bird Aircraft Strike Hazard reduction activities)	Varies[4]	1 day	30 days	Indoor and Occupied Spaces:100% control Retreatment required if: - Indoor Industrial and Outdoors: 5 or more birds	2, 4, 5, 6, 11

Attachment J-1503020-12
Vertebrate Pest Requirements

Superscript:

1. After notification.
2. After first control action.
3. Based on performance assessment (i.e., surveys, customer complaints).
4. General Bird Control: 3 working days, 1 day in occupied spaces; BASH: 24 hours; BASH Emergency Call (Mission affected): Immediately

Notes:

1. Regularly scheduled, periodic pesticide applications are not approved for DoD property.
2. Report conditions conducive to pest infestation to the COR within one working day following survey.
3. Caught rodents shall not be left in traps for longer than 24 hours. Rodenticides should not be used in day care centers, schools or areas where food is prepared or served without special approval from the KO and notification of the Preventive Medicine Department.
4. Carcass disposal, transportation, disposition, deodorizing etc. are considered a normal part of pest control and are at no additional cost to the government.
5. Permits may be required to perform this work (i.e., NPDES permit, FWS permit). The contractor shall obtain all permits and provide a copy to the KO prior to commencing control.
6. Only three species of birds (European starling, English sparrow, and pigeons) may be controlled without a permit from the US Fish and Wildlife Service. Use of ultrasonic, electromagnetic, sonic repellant devices or electric shock devices is prohibited.
7. Feral Cats: Captured feral cats may be taken to the local humane society or animal shelter. Feral cats and other animals shall not be neutered and released onto the installation.
8. Wild Vertebrates That Do Not Transmit Rabies: Consult with Natural Resources prior to conducting any vertebrate control measures. Relocation and release of captured animals must be done in accordance with all Federal, State, and local regulations. If transport/release is not possible or practical the animal may be euthanized humanely and the carcass disposed of in accordance with county/local laws.
9. Leg hold traps or other devices that will harm animals are prohibited. Traps shall be placed and set in such a way as to prevent harm to humans and minimize harm to non-target animals.
10. Non-lethal control is required unless the animal appears rabid, sick, is extremely aggressive and poses a danger to the contractor during trapping, poses a danger to personnel or is a nuisance animal. Captured animals shall be scrutinized for sickness. If sickness is suspected, or animals are defined as nuisance species, they shall be humanely euthanized. Coordinate with Base Medical Department for carcass disposition (disposal or transport as applicable). If animals appear healthy, transport/release if possible, or dispose of at the discretion of the KO. Relocation and release of captured animals must be done in accordance with all Federal, State, and local regulations. Animals defined as nuisance animals should be humanely euthanized rather than relocated and released.
11. Consult with Natural Resources before considering lethal control of vertebrates. If permitted, firearms use shall always be coordinated with Base Security.

Attachment J-1503020-13
Termite Control Specifications

Unscheduled Structural Pest Control Services. The Contractor shall provide structural pest control services on an unscheduled (indefinite quantity) basis as specified below. Services shall be completed within five working days after receipt of the task order. At the time of any soil treatment application, the soil shall be in a condition with low moisture to allow uniform distribution of the treatment solution throughout the soil. The Contractor shall not apply pesticide during or immediately following heavy rains, or when conditions will cause runoff and create an environmental hazard. No pesticides shall be applied to the soil beneath a plenum air space. Pesticides shall not be applied until the approximate location of water and sewer lines are known.

(1) Subterranean Termite Control. All termite infestations in the structure shall be controlled within 30 days of treatment. Toxicants shall be delivered to the project site in sealed and labeled containers as supplied by the manufacturer or formulator. Labels shall bear the manufacturer's warnings to be observed in handling and use of material, and bear evidence or registration under the FIFRA.

a) **MATERIALS.** "The termiticide used for control of subterranean termites shall be a soil applied nonrepellent termiticide (such as fipronil, imidacloprid or chlorfenapyr). If needed, remedial treatments can be applied to wooden structural members using a borate product containing the active ingredient disodium octaborate tetrahydrate (i.e. Tim-Bor™, Bora-Care™). The termiticide product shall be applied at the **highest labeled rates and concentrations**."

1. Delivery and Storage. Termiticide shall be delivered to the project site in sealed and labeled containers as supplied by the manufacturer or formulator. Labels shall bear manufacturer's warnings to be observed in handling and use of the material. Labels shall bear evidence of registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended by the Federal Environmental Pesticide Control Act (FEPCA) of 1972.
2. Samples. The Contractor shall submit on request, or the Contracting Officer may draw at any time, without prior notice, from stocks at the site of the work, samples of insecticide concentrates and diluted insecticide solutions or emulsions being used or presumed to be for use in this work. Should analysis indicate such samples to contain less than the amount of active ingredient claimed on the label or specified herein, then all work done with such insecticides shall be repeated using insecticides conforming to this specification without additional cost to the Government.

b) **APPLICATION SHALL BE MADE IN THE FOLLOWING MANNER**:

1. Interior Areas to be Treated. Expansion or construction joints located under and adjacent to interior and exterior walls shall be treated by drilling holes through the floor slab and injecting the proper insecticide. Drill holes should be spaced in a manner that will allow for application of a continuous chemical treatment zone (i.e. holes approximately 3/8 inch in diameter and no more than 12 inches apart, on center, not more than 6 inches from the wall being treated). Termiticide shall be applied into these holes under pressure at a rate as specified on the insecticide label. Plumbing chases shall also be treated.
2. Exterior Areas to be Treated. Soil adjacent to the outside of wall shall be treated. The treatment shall extend from the top of the footing to the top of the soil to form a vertical insecticide barrier along the building at the rate of not less than four gallons per ten linear feet per foot of depth. Backfill shall be tamped and sufficient in quantity to provide a surface sloping away from the structure. Voids in concrete block walls, and between brick veneer and foundation walls shall be treated by drilling and injecting insecticide as specified on the label.
3. Label Requirements. Rates and methods of application shall be in strict accordance with the printed instructions on the manufacturer's insecticide label with the insecticide applied at the **highest labeled rate and concentration**. Conflicts between this specification and label directions shall be resolved in favor of the label and discussion with the COR. Prior to performing the work, the termiticide label, labeling and Material Safety Data Sheet (MSDS) must be submitted to the KO and COR for acceptance.

Attachment J-1503020-13
Termite Control Specifications

c) **DRILL HOLES**
   1. Drill holes in masonry walls shall be plugged neatly and solid using 1:2 sand cement mortar.
   2. Drill holes in floor slabs shall be plugged neatly and solid using an approved non-shrink grout.
   3. Drill holes in expansion joints shall be sealed with an approved mastic cement. Excess mastic shall be removed and left neat.

d) **EXISTING UTILITIES**. The Contractor shall determine in advance of commencing work the locations of water lines, drain lines, fuel oil lines and heating ducts, and shall avoid damage to these lines and ducts during drilling and rodding operations. Any damage caused by the Contractor's operations, if not conducted according to the information obtained from the Contracting Officer, shall be immediately repaired at the Contractor's expense.

e) **SITE PROTECTION AND BACKFILL TREATMENT**. All shrubbery shall be protected from damage during all operations under this contract. Any such damage incurred shall be immediately corrected at no cost to the Government. Where grass is removed from trenching or excavated material, after backfilling, the sod shall be replaced and thoroughly dampened with the approved termiticide solution if allowed by the insecticide label.

f) **CERTIFICATION OF WORK**. Upon final completion of the soil treatment, and as a condition for final acceptance, the Contractor shall furnish a written certificate stating:
   1. Insecticide used had required concentration, brand name, and manufacturer thereof.
   2. Rate and method of application complied in every respect with the standards contained herein.

g) WARRANTY. The Contractor shall provide the Contracting Officer with a written warranty, in acceptable form, for each building or building unit treated for subterranean termites. The warranty shall be prepaid (to be included in the total price of the treatment) good for a period of no less than five years, guaranteeing retreatment of any subsequent infestation and further that any structural damage due to an infestation after the initial treatment shall be repaired at no additional cost. A detailed written structural assessment shall be made by the Contractor with concurrence by the Contracting Officer prior to initial treatment for reference at a later date, should there be any questions of subsequent damage. The limit of the Contractor's liability for repairs is $25,000 per building.

(2) Drywood Termite Control. Provide drywood termite control as described below. The presence of an inspector trained in fumigation is essential while fumigant concentration readings are taken to determine that all drywood termites are killed during fumigation. Adherence to proper procedures must be assured while the work is being accomplished.

a) Safety Measures. The Contractor shall ensure proper techniques and procedures are followed. Precautions shall be taken to prevent injury to any person and damage to property as a result of work accomplished under this section. These precautions shall include, but are not limited to, the following:
   1. Safety Equipment. Before releasing any gas, the Contractor shall deliver to the COR, ready for use by Government personnel, two full-face gas masks, each with two new, unused canisters appropriate for the gas to be employed, or a similar number of self-contained breathing apparatuses, each with a cylinder of air; a completely stocked and illustrated fumigator's first aid kit (all meeting specifications of the Health and Safety Division, Bureau of Mines, U.S. Department of the Interior); and at least one approved low-volume gas detector for the fumigant to be employed. All such equipment will be held at the site until completion of the work.
   2. Notification of Security Officer. The activity Security Officer shall be notified at least 24 hours prior to the commencement of fumigation operations, and upon completion of the work that the building is being left unattended.
   3. Disconnection of Services. Prior to fumigation, all gas and other fuel supplies shall be cut off. Electric and telephone service need not be disconnected; however, the electric main

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Termite Control Specifications

entrance switch shall be pulled. All fires, including pilot lights, shall be extinguished prior to beginning fumigation procedures. After fumigation and subsequent ventilation has been completed, electric power, pilot lights, etc., shall be turned on or relit. Damage to any service caused by the Contractor shall be repaired at no additional cost to the Government.

4. Barricades. A double rope barricade shall be placed no closer than 20 feet to, and around the entire perimeter of the building to be fumigated. Existing fences may substitute for rope barricades if they are at least 20 feet from the building.
5. Signs. Warning signs shall be placed prominently on all means of ingress to the building and grounds, including fences and rope barricades surrounding the work. Signs shall include a statement that the building is being fumigated with "sulfuryl fluoride" gas. Signs shall not be less than 18 by 24 inches in size and shall meet all state and local wording requirements.
6. Guards. At least two guards shall be placed around the building before gas is released. Guards shall be positioned at either end of the structure so the maximum amount of the building is under continuous observation. Guards, warning signs, and barricades shall be maintained during the entire fumigation process until the Contractor has checked for gas concentration and declares the entire area gas free and safe for normal occupancy.
7. Lighting. The Contractor shall provide adequate lighting around the exterior of the structure being fumigated to permit ready detection of trespassers during the night.
8. Evacuation of Personnel. After all persons and animals are evacuated from within and under the building, guards are posted, and prior to release of the fumigant, the Contractor and KO shall jointly inspect all rooms and spaces to assure evacuation is complete.
9. Partial Fumigation. No partial fumigation of any building shall be allowed.

b) Preparation.

1. Grass and Shrubbery. Wet the soil in planted areas to a depth of six inches for a distance of one foot outward from the areas to be covered by the tarp, to protect nearby plant roots from injury. In this respect, the Contractor shall exercise every precaution to protect and preserve grass and shrubbery that may come into contact with the building. Any plants, shrubs, or grass damaged by the gas or otherwise, shall be replaced at no additional cost to the Government.
2. Sampling. Furnish and install a minimum of four polyethylene tubes leading from approved locations within the structure to an approved location outside for the purpose of recording gas concentrations. Also furnish for use and have available during the entire fumigation period an approved thermal conductivity gas metering device, correctly calibrated in ounces per 1,000 cubic feet for the fumigant to be employed, and capable of sampling from the polyethylene tubes.
3. Removal of Damageable Items. Remove all items from the building that might be damaged by the fumigant and maintain in locked storage. Lost or damaged items shall be repaired or replaced by the Contractor at no additional cost to the Government.
4. Building Proper. In preparing the building for fumigation, exterior doors and windows and all entrances to enclosed interior areas, such as doors or windows leading to closets or cabinets or between rooms, shall be opened to facilitate distribution of the gas during fumigation and insure maximum ventilation at the end of the fumigation period.

c) Procedure.

1. General. The building to be fumigated shall be completely enclosed with a gas-impervious tarpaulin material, with all sheeting seams securely sealed, and the lower edges of the enveloping cover sealed to the ground or finish grade level in a trench, with moist soil or with sand/water snakes (flexible tubing filled with water).
2. Introduction of Chloropicrin. After preparation and sealing of the structure (except for one entrance) and prior to injection of the sulfuryl fluoride (Vikane), the Contractor shall introduce chloropicrin into the structure. The chloropicrin shall be introduced by placing cotton in shallow dishes, setting the dishes in the air stream of an electric fan within the

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Termite Control Specifications

structure, and pouring the chloropicrin over the cotton at the rate of one ounce per 10,000 to 15,000 cubic feet of space to be fumigated. The building will then be sealed and the fans started.

3. Fumigation. After introduction of the chloropicrin, the fumigant described below shall be released from cylinders placed outside the enclosed areas through not less than two hoses of either rubber, polyethylene tubing, or copper tubing leading to points well distributed within each floor of the building as previously approved by the KO. The liquid shall be injected at a temperature and pressure to guarantee complete vaporization upon its release. Sufficient air turbulence shall be created to maintain uniform distribution of the fumigants throughout all portions of the building and to prevent stratification of gas at any location by use of not less than four electric fans, each having a capacity of 3,000 to 5,000 cubic feet per minute (CFM).
4. Fumigant and Dosage Rates. The fumigant shall be sulfuryl fluoride (Vikane) gas, injected in vapor form, and maintained in accordance with Dow Chemical Company Fumiguides B and Y. When the whole Fumiguide calculated initial concentration is obtained from all sampling points, the 24-hour fumigation time period starts. If the Contractor wishes to increase dosage rates to shorten the fumigation time in accordance with Fumiguide Y, prior approval of the KO and the NAVFAC PPMC is required.
5. Borate Treatment. In addition to the aforementioned treatment, a glycol borate solution of Bora-CareTM shall be applied in attic and crawl spaces of the building. Apply a one-part water to one-part Bora-Care™ solution to the point of run off (one gallon of diluted solution for each 500 feet of surface area) to all exposed wood surfaces. Follow all labeled directions for the safe handling and use of this product. Aerosol application will be allowed only in inaccessible areas and with the prior approval of the KO.
6. Sampling. During the actual 24-hour fumigation period, the gas-laden atmosphere within the enveloped structure shall be sampled from each sampling point five times: at the inception, and at four, eight, 16, and 24 hours after inception. The Contractor shall take appropriate action to ensure proper distribution of the gas and maintenance of the level of concentration specified. Sample readings shall be recorded and a copy of the readings provided to the KO upon completion of the treatment.

d) Aeration. Upon termination of the fumigation exposure period, the Contractor shall remove all seals, open all doors and windows, and use ventilation fans to remove fumigants from dead air pockets with full observance of accepted safety, state, and labeled aeration procedures to avoid exposure of any persons or other life to dangerous concentrations of fumigant gas. The Contractor shall check for complete aeration with a low-volume gas detector in all enclosures, which might retain concentrations of gas, such as closets, cabinets, refrigerators, and chests, and certify to the KO that the structure is gas free and available for occupancy.

e) Clean Up. Upon completion of the fumigation, remove all debris and rubbish resulting from the work, replace damageable items removed from the building, and repair all damage resulting from the work.

f) Warranty. The Contractor shall guarantee the fumigated building is completely free of living drywood termites for one year after the fumigation is completed. The Contractor, accompanied by the KO, shall make two thorough inspections of the structure, at six-month intervals, following the fumigation date. The written findings of each inspection shall be provided to the KO within 10 working days after inspection completion. Positive evidence of drywood termite infestation, except from furniture and other moveable property installed during the one-year period, shall constitute conclusive evidence of improper fumigation and lack of control, and the building shall be refumigated at no additional cost to the Government.

Attachment J-1503020-14 Historical Pest Control Service Orders	
Work Order Number	**Description**

Attachment J-1503020-15
Sample New Pest Management Record

New Pesticide Management Record

Instructions:
1. Select the installation and fill in the Office/Contractor, if applicable
2. Fill in a separate form for each pest management operation. Items marked with a red asterisk (*) are required. For pesticide applications, the pounds of active ingredient (PAI) will be calculated automatically based on the data you enter.

Installation Name:

Department/Company: NAVFAC LANT

Office/Contractor: (optional) Applied Biology

☐ Negative Report

* Contract or In-House:		
* Application Date:	12/18/2018	
* Inside or Outside:		
* Facility: Building # or Area		
* Operation: (Examples)		* - No PAI will be calculated ** - A PAI will be calculated if a pesticide is selected
* Site:		
* Pest:		
* Applicator Name:	Bobby Bush Modify applicator list	
* Pesticide Trade Name:	Please select an installation to view the AUL.	
Pesticide Active Ingredient:		
EPA Registration # or Other #:		
Formulation:		
* Area Treated:		
* Quantity of undiluted product applied (from the pesticide container) (Example)		
Quantity of dilutant (water, oil, etc) applied (if needed) (Example)		
PAI*:	Will be automatically calculated for the appropriate Operations*	
Comments:		
Additional Comments (Optional):		

* Save Defaults: If you want the current date to load while the other default values are loaded, delete the Application Date, then click 'Save Defaults'.

Submit Record | Save Defaults* | Clear Defaults