

## Bird Control System

### PART 1 - GENERAL

#### 1.1 SUMMARY

- a. Section includes design and installation of the Avian Averting System on facility structure to prohibit roosting and nesting of birds.

#### 1.2 QUALITY ASSURANCE

- a. Installer Qualifications: Installers must be certified in writing to have a minimum of 5 years of experience installing the manufacturer's product.
- b. Single Source Responsibility: Furnish products from one manufacturer for entire project.

#### 1.3 SUBMITTALS

- a. Product Data: Include construction details, material descriptions, dimensions of individual components and finishes for bird control systems.
- b. Shop Drawings: Include plans, elevations, sections, details and attachments to other work.

#### 1.4 COORDINATION

- a. Coordinate installation to facility structure. Furnish specifications detailing installation components and how attached to facility structure. Deliver materials required for installation to Project site in time for installation.

#### 1.5 WARRANTY

- a. Product shall have a minimum 5-year guarantee against U.V. breakdown.
- b. Installation shall be guaranteed for 1 year.
- c. Parts covered by 12 year limited replacement warranty.

### PART 2 – PRODUCTS

#### 2.1 ACCEPTABLE MANUFACTURES

- a. Following manufactures listed are “acceptable” only if manufacturer can evidence product compliance with requirements of Contract Documents and parts limited 12-year part replacement warranty.

1. Avian Flyaway, Inc.

- b. For manufactures not listed, submit as substitution according to the Conditions of the Contract and Division 1 Specification Sections.

## 2.2 MATERIAL

- a. AFI Model E 1007(or equivalent): Input 110-120V AC, 0.035 A, 60 Hz,. Output: Approximately 1.2 kV +/- 0.2 kV. (may vary with species/application, must conform to UL69 standard)
- b. Enclosure: NEMA Type 3 or 4 weatherproof enclosure. Dimensions approximately 8”H x 8”W x 4” D with appropriate lights to signify the readiness of system.
- c. High Voltage Cable/Connectors: Stranded copper cable No. 18/2 AWG 2C Flat, 600V, 105 degrees dry, 75 degrees wet, water and oil resistant, gray.
- d. Ground Wire: Insulated ground wire shall be 18 MTW. Color shall be tan, black or brown.
- e. Wire Field: Hot wire with ground wire cable shall be hand drawn 316 stainless steel, 0.03” diameter, high tensile strength. Vultures may be specified at larger diameter.
- f. Insulators: Polycarbonate, with UV inhibitor. L shaped (1.4” wide, 1.4”h, .225” thick.). There will be three .1” holes across top, two .1” holes above bottom corner and .25” slot for screw down fastening. Adhesive fasten insulator: polycarbonate or finished metal combination, with UV inhibitor (typically 3” wide, 5” long, 1.5” h, .25” thick). Three .1” holes across top, two .1” holes above bottom corner, 10 “gluelock” holes across the base, ridged across the bottom, or finished metal base shaped to surface. (Surface Preparation Guidelines for adhesive must be followed.)
- g. Fasteners: Must be grade 5 or better, stainless steel.
- h. Washers: Must be 1/4” flat cut stainless steel or neoprene.
- i. Conduit Straps: Must be stainless steel.
- j. Anchors: Must be 10-12 x 1” blue plastic.
- k. Stainless Steel Springs: Outside diameter 0.375, wire diameter 0.37, maximum load 5.8 lbs., free length 1.50”, initial tension 0.70 lbs., passivated, loops random position.
- l. Warning Decals: Must be in English/Spanish and applied to all windows where electrified wire bird system is on the ledge outside.
- m. A written safety program must be in effect covering lifts, ladders, OSHA requirements, hazards of working heights and all installation personnel must be familiar with the contents.
- n. Workman’s Compensation Insurance must be carried, statute limits, Liability \$3 million and Auto Liability \$1 million. Payment and Performance Bonds may be required for each job.

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- a. Examine the installation area and note any detrimental or hazardous work conditions.
- b. Do not proceed with installation until all conditions are corrected.

### 3.2 SURFACE PREPARATION

- a. Surface should be thoroughly cleaned and free of bird droppings, nesting materials, rust, peeling paint or other debris. Adhesive installs must follow adhesive manufacturer's guidelines for surface preparation.
- b. Remove or repair article that may damage bird deterrent system after installation, including overhanging foliage, brush and loose parts on the structure.

### 3.3 INSTALLATION

- a. Install in accordance with manufacturer's requirements, instructions, specifications, details and appropriate shop drawings.
- b. Bird deterrent system should be installed correctly, covering all necessary required areas.

### 3.4 INSPECTION

- a. Visually inspect for any signs of improper installation, including loose screws, fasteners or un-removed items.
- b. Immediately correct and repair as necessary.

END OF SECTION

Avian Flyaway, Inc.® Proprietary 2016