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AFCESA

TARGET AUDIENCE: Operations Flight

Improved Herbicide Application Technology

SYNOPSIS:

This supersedes A-Gram 00-05, dated February 2000.

Controlling vegetation on Air Force real property is important to the morale of our service members and, in some cases, directly relates to accomplishment of flying missions. AFCESA, through the Management Equipment and Evaluation Program (MEEP), has identified new equipment, known as the WeedSeeker Selective Spray System, that will allow BCE organizations to save 50 percent of labor costs and 75 percent of herbicide costs while reducing operator exposure to chemicals when applying herbicides. In addition, this equipment will assist installations in meeting their pesticide reduction targets. It takes advantage of new developments in optoelectronics technology, which allows intermittent or spot spraying of herbicides only where chlorophyll is detected.



Vegetation Management Problems:

Airfield runways, parking lots, maintenance yards, railroad tracks, and roadways are just a few of the areas that require total vegetation control by application of herbicides. Manpower reductions and a tasking from DoD to reduce pesticide use also complicate our desire to maintain a high standard of appearance on Air Force installations. Application of herbicides on airfields is oftentimes sensitive due to high use demands.

Evaluation of New Technology:

Working with the MEEP office, Pest Management Shop personnel at Nellis AFB NV assisted in evaluating the WeedSeeker DB210 Selective Weed Spray System. The equipment was easy and simple to use. Chemical application with this system is fast (10 miles/hour) and can even be made at night. Another significant advantage of this equipment over conventional sprayer models is the reduced exposure to pesticides for our personnel and the environment. The evaluation results led to a recommendation for Air Force-wide use.

Equipment Composition:

The DB210 System consists of 10 WeedSeeker sensors mounted on a double-boom rigid bar, which can be attached to the front or rear of a vehicle. The DB210 covers an area 10 feet wide and is ideal for use on airfields or other hardstand areas. The equipment is normally mounted on the Gator utility vehicle, but other equipment can be used for mounting the sprayer.

Cost and Source:

The cost of the unit as shown is estimated to be \$28,000. For more information on the WeedSeeker, contact: Ntech Industries, Inc., 1147 North State Street, Ukiah CA 95482, telephone, 888-728-2436, or www.weedseeker.com/military.html.

CONTACTS:

For a copy of MEEP Evaluation EC98-08, contact Mr. Charles Batchelor, project manager, DSN 574-4410; Fax: 574-4415; e-mail: Charles.Batchelor@langley.af.mil.

All other inquiries should be directed to the point of contact listed at left.

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HQ Air Force
Civil Engineer
Support Agency
Tyndall AFB, Florida
32403-5319



Contact

Mr. Wayne Fordham
HQ AFCESA/CESM
139 Barnes Drive
Suite 1
Tyndall AFB FL
32403-5319
DSN 523-6465
FAX 523-6219
Comm 850-283-6465
E-mail
Wayne.Fordham@tyndall.af.mil