

**WATTS ANTENNA COMPANY:**  
**FACTORY CERTIFIED ORGANIZATIONS & PERSONNEL**  
**FOR END-FIRE GLIDE SLOPE ANTENNA SYSTEMS**

In order to provide better service and capability to our customers, we encourage you to contact one of these organizations which have invested in advanced training for its personnel:

THESE FACTORY- CERTIFIED INDIVIDUALS FOR END-FIRE SYSTEMS WORK FOR  
ASMI INC., AVINOR AS, HONEYWELL, JO-EL ENTERPRISES, PARK AIR SYSTEMS AS,  
SKYGUIDE, SOCOTEL LTDA., THALES ATM, U.S. FEDERAL AVIATION  
ADMINISTRATION, AND THE U.S. NAVY/MARINE CORPS.

Watts Antenna conducts an in-depth week-long, advanced training program at its factory on the end-fire glide slope systems. Individuals are trained on all aspects of the system, including system familiarization; general requirements and specifications; theory of operation; standards and tolerances; periodic and corrective maintenance procedures; special configurations to accommodate complex installation constraints and siting issues; site evaluations; computer modeling benefits and temporary installations; installation, integration and checkout; troubleshooting; system optimization; antenna optimization; and flight inspection. Each attendee gains practical hands-on experience using Watts' facilities and equipment.

Individuals are only able to obtain factory certification for installation and optimization by passing a rigorous, comprehensive, 6-hour written examination. An even higher score on the examination is required for certification as an end-fire trainer such that the individual has demonstrated technical mastery of the systems sufficient to train others.

Those individuals, who are presently factory-certified, are listed in alphabetical order by company, organization, or name, with the certifications they earned.

**ASMI INC**  
6728 W. 153<sup>rd</sup> Street  
Overland Park, KS 66223  
913-894-8927

**James Nulle**

Certified: Installation and Optimization  
Certified: End-fire Trainer

**John Santos**

Certified: Installation and Optimization

**AVINOR AS**  
Postboks 8124 DEP  
Oslo 0032

## Norway

### Harald Austnes

Aalesund Lufthavn

Certified: Installation and Optimization

### Odd Jordet

Certified: Installation and Optimization

### Kjell Birger Kvinnesland

Stavenger Lufthavn

Certified: Installation and Optimization

### Jostein Lyngoy

Trondheim Lufthavn Vaernes

Certified: Installation and Optimization

### Tore Odelien

Aalesund Lufthavn Vigra

Certified: Installation and Optimization

### Espen Rogne

Avinor AS Teknisk Senter

Certified: Installation and Optimization

## JO-EL ENTERPRISES

8690 McKee Road

Upatoi, GA 31829

706-563-2648

### Elger Holland

Certified: Installation and Optimization

Certified: End-fire Trainer

## PARK AIR SYSTEMS AS

Enebakkveien 150

P.O. Box 50 Manglerud

N-0612, Oslo, Norway

+47 23 18 02 46

### Alf Bakken

Senior ILS Specialist

Certified: Installation and Optimization

Certified: End-fire Trainer

## RADIO SIGNAL ANALYSTS

5584 154<sup>th</sup> Lane

Ramsey, MN 55303

609-214-8029

### Dr. Frank Marcum

Certified: Installation and Optimization

Certified: End-fire Trainer

## SKYGUIDE/SWISS AIR NAVIGATION SERVICES LTD.

Route de pre-bois 15-17

Case Postale 796

CH - 1215 Geneve 15

Switzerland

### Herve Demule

Certified: Installation and Optimization  
Certified: End-fire Trainer

**Socotel Ltda.**  
**Transvaal 13A # 118-32**  
**Bogota, Colombia**  
**+57 3-002087777**

**Francisco Forero**  
Project Engineer  
Certified: Installation and Optimization  
Certified: End-fire Trainer

**THALES ATM Inc.**  
**23501 W. 84<sup>th</sup> Street**  
**Shawnee, KS 66227-3296**  
**913-422-2600**

**Adel Chehade**  
Engineer  
Certified: Installation and Optimization  
Certified: End-fire Trainer

**Mic Thompson**  
Installation/Training Specialist  
Certified: Installation and Optimization  
Certified: End-fire Trainer

**James J. Gilliford**  
Senior Instructor - Customer Training  
Certified: Installation and Optimization

**Stephen D. Schroeder**  
Installation Specialist  
Certified: Installation and Optimization  
Certified: End-fire Trainer

**Robert B. Hoesly**  
Installation Specialist Certified:  
Installation and Optimization  
Certified: End-fire Trainer

**Joseph B. Yates**  
Installation Specialist  
Certified: Installation and Optimization

**U.S. Federal Aviation Administration**  
**800 Independence Avenue, SW**  
**Washington, DC 20591**

**John M. Varas**  
Navigation and Landing, AND-720  
Certified: Installation and Optimization

**U.S. Federal Aviation Administration**  
**FAA Academy, AMA - 420**  
**P.O. Box 5082**  
**Oklahoma City, OK 73169**

**Michael L. Goff**  
Certified: Installation and Optimization  
Certified: End-fire Trainer

**U.S. Federal Aviation Administration  
Navigation & Landing Branch, AOS-240  
P.O. Box 5082  
Oklahoma City, OK 73169**

**Mickey Lindecker**

Certified: Installation and Optimization  
Certified: End-fire Trainer

**Bret Rosen, Contractor**

Certified: Installation and Optimization  
Certified: End-fire Trainer

**U.S. Federal Aviation Administration  
FAA ANI-380**

**P.O. Box  
20636  
Atlanta, GA 30320**

**Dwayne Green**

Certified: Installation and Optimization  
Certified: End-fire Trainer

**David Reul**

Certified: Installation and Optimization  
Certified: End-fire Trainer

**U.S. Navy/Marine Corps  
Marine Corps Air Station Cherry Point  
Cherry Point, NC 28533**

**Daniel Hernandez**

Certified: Installation and Optimization  
Certified: End-fire Trainer