

ATCA Bulletin

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THE SEARCH FOR THE HOLY GRAIL

The NAS Optimizer

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Member Spotlight

Watts Antenna Company Has Solutions for NextGen Optimization

“Watts Antenna Company's Instrument Landing System (ILS) antennas are the most technologically advanced ILS antennas in the world with substantial benefits yet to be realized.” – John H. Johnson, Sr., Watts Antenna Company President.

While technologies such as NextGen and Global Navigation Satellite System (GNSS) have received the bulk of the international navigation community's attention and funding over the last several decades, ILS remains the “gold standard” in all weather landing systems. Global innovations of the ILS antenna array, the most important sub-system in providing improvements to the NAS, have fallen well behind the ILS transmitter and monitor electronics. Throughout this period, Watts Antenna Company has continued to privately fund and develop state-of-the-art ILS antennas. The fact that ILS remains the most utilized landing system across the globe vindicates Watts Antenna Company's decision to aggressively pursue advanced ILS antenna research and development.

Today, Watts Antenna Company is introducing a new generation of advanced ILS antennas. With greater quality and precision, these new designs shape and direct the signal radiated to an approaching aircraft by using wide-aperture, highly directive, and beam-steered antennas.

Watts' directive antenna designs mitigate undesirable multi-path signals and allow simplified yet enhanced ATC operations while substantially increasing construction opportunities in and around the airport. These designs accomplish many objectives of the FAA's NextGen Performance Based Navigation (PBN) and Continuous Lower Energy, Emissions, and Noise (CLEEN) initiatives by shortening the landing and takeoff cycle (LTC), allowing more operations per hour, thus resulting in increased airport capacity. Additionally, these advanced ILS antennas radiate asymmetrical signal patterns that reduce ILS critical areas making our advanced ILS antennas the most efficient and best suited to provide a resilient backup when GNSS is unavailable.

Watts Antenna Company is a veteran-owned and operated corporation headquartered in Virginia with its primary operating and manufacturing facility in Ohio. For more information, visit www.wattsantenna.com. You can contact Watts Antenna Company at info@wattsantenna.com or by phone at 1-740-797-9380. ✈



Watts Antenna Company's Model GP5-A1 Image Glide Slope Antenna. Initial testing of Model GP5-A1 and GP7 family of antennas was successfully flight tested in Zurich, Switzerland, for Category III operations in November 2006.



The world's largest and first commissioned Super Wide Aperture Localizer Antenna (278 feet, 85 meters). Watts Antenna Company's Model 201 Localizer Antenna was installed in Geneva, Switzerland, achieving Cat III certification in October 2005.

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