

# INNOVATIONS IN LEAK TESTING

Volume 4, Issue 1  
January, 2007

## NORCOM SYSTEMS INTRODUCES NEW SINGLE FOOTPRINT SYSTEM

Norristown, PA — June 21, 2006—

NorCom Systems has responded to customers desires to reduce equipment footprint size with the introduction of the NorCom 2020 SF series of Optical leak test systems.

### Smaller Footprint with the same Advanced Technology

The NorCom 2020 SF series offers a 30% reduction in overall footprint but maintains the same advanced repeatability, sensitivity and reliability of the standard NorCom 2020,



NorCom 2020 SF system

#### Features

- Quantitative results measured in cc-atm/second helium
- One-step calibration and setup
- Single Footprint Design
- MIL STD approved

#### Benefits

- Reliable and repeatable test results
- Minimal training required
- Reduced clean room usage

For more information contact:  
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Norristown, PA USA 19403

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#### Special points of interest:

- New system has smaller footprint while maintaining the same great functionality
- The NorCom 2020 continues to gain regulatory and industry acceptance
- TQP offers great piece of mind.

## NorCom 2020 continues to gain regulatory acceptance

### Norristown, PA

The NorCom 2020 optical leak test systems continue to be compliant with MIL STD 883, TM 1014. With the recent revision G, Defense Supply Columbus (DSCC) continues to recognize optical leak testing as a valid method for the testing of microelectronics devices.

Optical Leak Testing (OLT) has been recognized since 1995 in 883E with major revisions to the standard in 2004 which fully recognized OLT as a method for accurately detecting hermetic leaks in device level and board level packages. Mil Std 883G lists no changes to OLT which shows the communities continued support for this very important technology.

After the revision to OLT in June 2004 the industry embraced the NorCom 2020 technology and started implementation of the technology on many military Hi-Rel applications. Additionally the space community began implementing the technology for the testing on hermetic devices mounted on PC boards for mission critical systems.

NorCom continues to remain committed to the advancement of OLT as the premier test method for Hi-Rel applications particularly in the areas of Space and Military components and subsystems. Development work has continued using to NorCom 2020 to further the abilities of OLT including enhanced sensitivities with the use of improved pressure control

and high resolution camera technology. All of these efforts have shown to improve many device test sensitivities and enhanced test repeatability.

Optical Leak Testing and the NorCom 2020 continue to be one of the most important new technologies to insure the reliability of mission critical hardware.

## OUT AND ABOUT WITH NORCOM:

NorCom Systems will be at the following symposiums and exhibitions:



March 27-29, Anaheim CA.



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## Representatives Spotlight:



### AVID associates

AVID Associates was founded in 1990 as a manufacturer's representative firm offering quality equipment and consumable products to electronic systems and components manufacturers in New York, Pennsylvania, New Jersey, Delaware, Maryland and northern Virginia.

Our typical customers produce in one or more of the following areas: Through-hole and/or surface mount printed circuit boards and assemblies; Thick-film hybrid circuits or packages; Multilayer ceramic packages; components, etc. etc. Customers throughout our area include military, commercial, automotive, telecommunications and aerospace technologies.

#### Russ Atkinson

Russ Atkinson started AVID coming from 21 years background in various electronic assembly disciplines. Positions previously held include: President, AMI/Presco (screen printers); Joint founder and first president of QUAD Systems (surface mount assembly); V-P General Manager, MTI Systems

(component packaging and systems integrator), and others. Russ has been also active in several industry organizations such as ISHM (now IMAPS) serving in several national elected offices including Interconnect/Surface Mount Division Chair. He has been named a Fellow of the Society and has taught Professional Development Courses in electronic packaging and assembly. He is also a patentee in the field and has authored numerous technical papers.

#### Lou Razzetti

Lou Razzetti became an associate after a 28 year background in high-tech electronics assembly at Westinghouse. He was Engineering Manager of Westinghouse's world class MCM and microwave module manufacturing facilities and Operations Manager of their Oceanic Division which built large underwater systems. Lou was past-president of ISHM's (now IMAPS) Capital Chapter, Chairman of ASTM's Committee on Hybrid Microelectronics, and is a member of SMTA. He has also taught college level courses on microelectronics processing.

#### Mike Laing

Mike Laing became an AVID Associate following 18 years of marketing capital equipment to a number of industries with an emphasis on microelectronics, surface mount assem-

ibly and high temperature thermal processing of advanced materials including powder metal applications. His past positions include Sales and Promotions Manager for CM Furnaces (High-Temperature Thermal Processing Systems), Multi-National Accounts Manager for Heller Industries (SMT Solder Reflow Ovens), Sales and Marketing Manager for AMI/Presco (Thick Film and SMT Screen Printers), and others. Mike is also an active member of several industry organizations including IMAPS, SMTA, APMI (Powder Metal), AcerS (Ceramics) and AACG (Crystal Growth) and has presented a number of technical papers to these, and other, groups.

For More information:  
[www.avidassociates.com](http://www.avidassociates.com)

### NORCOM OFFERS

#### TOTAL QUALITY PROGRAM

Along with extensive manufacturing quality controls, NorCom offers a **Total Quality Program (TQP)**. This program offers ongoing **Total Quality Protection** for any NorCom optical leak test system installed at the customer's site.

NorCom's **TQP** combines calibration, training and process verification. More importantly it offers peace of mind and continued reliable hermetic leak testing through regular visits by a factory trained NorCom technician

or engineer.

The **TQP** is designed to maintain machine and operator performance through machine testing, scheduled parts replacement, preventive maintenance, system calibration and training. In addition, NorCom will provide a biannual report for management describing in detail machine performance issues, customer maintenance issues and recommendations for maintaining and improving the quality of the component hermetic leak testing program.

The customer contracts the frequency of visits which generally consist of two or four visits per year. Normal visits are scheduled at least 30 days in advance. A NorCom representative calls prior to each TQP visit to confirm dates and discuss any system concerns. Any training issues that may be needed will be discussed and a specific agenda for each day of the trip will be developed.

Call NorCom today for a quotation for a TQP for your system- +1 (610) 592-0167





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**NorCom Systems, Inc.**, has over 25 years experience with optical leak testing and system design. Specializing in semiconductors and optoelectronics, NorCom offers the most advanced and automated methods of performing testing of hermetically sealed electronic packages. Committed to product improvement, NorCom continues to pioneer breakthrough technology and applications for the military, telecommunications and electronics industries