

AMT

Aircraft Maintenance Technology

*Written by aircraft maintenance professionals
for the professional maintenance team*

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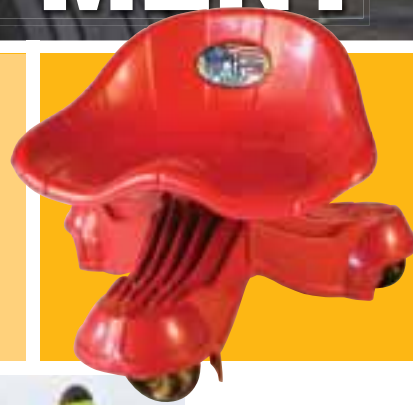


TOOLS AND EQUIPMENT

IN THIS ISSUE:

Spotlight:
Ground Support

Products of the Month





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3X Rivet Gun

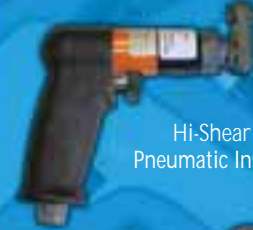
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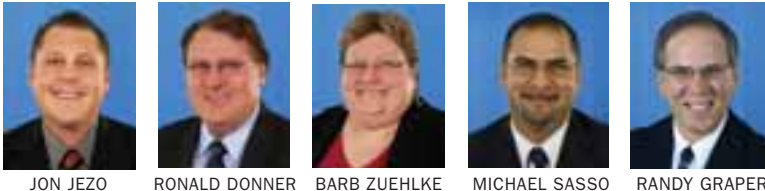
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By Ronald Donner



Reactive, Proactive, Predictive Data

What does it mean?

Aviation like most other industries, has a unique set of jargon, acronyms, and even slang words, that most of us use regularly to accomplish our work each and every day. As a greater number of companies implement safety management systems or SMS these days, we become faced with yet another set of jargon. Dr. Bill Johnson, chief scientific and technical advisor with the Federal Aviation

Reactive: The event has occurred

Proactive: Audit results

Predictive: System safety language

Administration asks the question, "Do you sometimes find yourself lost in the maze of jargon that surrounds SMS?" We probably all do. Safety management systems (SMS) are requiring us to understand a new set of terms. In his article in this supplement, "Navigating the Maze of SMS Jargon" Dr. Johnson sets out to explain some of the jargon we are all likely to hear when we become more involved with SMS.

Data collection and auditing are parts of most SMS programs. Recently the National Air Transport Association (NATA) announced establishing their NATA Safety 1st Ground Audit Standard. This audit standard is the first published audit standard for FBOs and their ground-handling service providers. An audit program which uses a standard such as this could very easily be made part of the oversight and surveillance parts of your company's SMS. Read the brief description in this supplement and follow the link provided to learn more on this ground handling audit standard.

This month's *AMT Tools & Equipment Supplement* highlights some of the latest in

both new and existing products for the aviation maintenance industry. Whether you're a technician responsible for the accurate and timely maintenance on ground support equipment, aircraft, or both, or a company owner or manager responsible for the same, I am sure you will find the listing and descriptions of the many new and existing products and tools in this supplement, of value to you in your maintenance role. For a more comprehensive listing of products and services, visit and search the online buyers guide on www.AviationPros.com.

March 7 through 9, 2012 will be the Cygnus Aviation Expo held in Las Vegas NV. This year's expo is promised to be better than ever. We have several educational sessions planned for the entire week that

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will peak the interest of ground support service and equipment providers such as making the switch from diesel GSE to electric GSE and several other *Green GSE* topics. I hope you can join us in Las Vegas. Ron

Don't forget to sign-up
for the Cygnus Aviation Expo.

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Sharing Resources and Benefits

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In the latest *AMT* Webinar, Ronald Donner spoke with members of the *AMT*Society Board of Directors on subject topics pertaining to Membership Benefits, Corporate Membership Opportunities, Student Scholarship Opportunities, Training Events approved for IA Renewal, Maintenance Skills Competition and so much more. View this webinar and discover all of what *AMT*Society has to offer you.



Ronald Donner, *AMT* Editor
Ronald (Ron) Donner is the current editor of *AMT* magazine



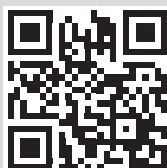
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SPEAKER: Peter Zeeb, AMTS Chairman Board of Directors
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Photo provided by Dr. William Johnson.

Safety management systems or SMS are designed to include all activities including ramp operations and maintenance activity.

Navigating The Maze of SMS Jargon

Do you sometimes find yourself lost in the maze of jargon that surrounds SMS?

By Dr. William Johnson, Chief Scientific & Technical Advisor - Human Factors, FAA

A recent story in the national press and television laughed about the family of four who became lost at dusk in a corn maze. They called 911 and the local fire department and television camera crews came to everyone's rescue. Yes, the story ended well but for the embarrassment of the parents.

Do you sometimes find yourself lost in the maze of jargon that surrounds safety management systems (SMS)? Let's try to clarify a few terms that can be confusing. Also, let's show

that SMS is often a matter of formalizing your current safety program.

The International Civil Aviation Organization (ICAO) guides the direction of required safety programs. Its safety management manual (Google the term "ICAO SMM") describes the multitude of suggested requirements for a safety management system. The requirements apply to airlines, charter companies, MROs, airports, air traffic organizations, and others.

Each organization must have a formal means to collect, analyze, and apply results from three different types of data:

- Reactive
- Proactive
- Predictive

FAA aligns guidance with ICAO. Different data need different methods to collect, analyze, and use the information to promote safety. Let's look at the three data types in more detail.

REACTIVE DATA

The event has already occurred. The damage is done. Depending on the severity of an event, you hear about it on the news. However, many other events, such as a runway incursion, high value ramp damage, or worker injury, may remain known only to the airline or company personnel involved.

Companies usually have accident/event procedures in place. They are prepared to launch an investigation team and establish fact-based contributing factors. There are very good processes to interview those involved or witnesses to an event. Companies usually have the means to determine the cause and take actions to ensure that the event never happens again.

Afterward, the FAA and any number of industry organizations and publications help disseminate accident/event data. This helps reduce the chance that the event may be repeated at another carrier. We learn from one another.

The event investigation process, the data collected, and the final report is merely a reaction to the event — hence, the term “reactive” data. There is high value in learning from the reactive data from big events. The industry has relied on such information for a long time in the successful effort to ensure continuing safety.

PROACTIVE DATA

Collecting, analyzing, and applying proactive data is not new. Only the emphasis on the term “proactive” is new. Aviation organizations have auditing, quality, and safety departments that apply a multitude of operational measures to assess current performance and safety. The FAA Continuing Analysis and Surveillance System (CASS) exemplifies a robust data system. For CASS, the company is responsible for collecting data and assessing the opportunities for improvement. Traditional audits with the International Air Transport Association (IATA), the Coordinating Agency for Supplier Evaluation (C.A.S.E.), and the

National Aviation Authority are nothing new. In SMS language, these audits represent your proactive data.

PREDICTIVE DATA

We are a very safe industry. The positive data from 2011 broke all safety records. The United States has gone nearly three years without an airliner accident fatality and the accident rate is considerably down worldwide. Today's aviation news is more likely to describe a long wait in a TSA line than an airliner safety issue. We must continue on that increasing safety path.

SMS regulations encourage us to take our data collection to the next level. Predictive data

NATA Safety Standard for Ground Handling

NATA recently established the NATA Safety 1st Ground Audit Standard to promote industry best practices and safety management systems (SMS) development among ground handling providers in response to member requests for a safety standard and rating for FBOs. This audit standard is the first published audit for FBOs and other ground-handling service providers.

“NATA members expressed concern that their companies are subject to numerous audits by charter operators, fractional ownership program managers, and many other consumers,” says NATA Safety 1st program manager Elizabeth Nicholson. “The preparation and hosting of these audits drains both staff time and resources to accommodate the various audits, which range in complexity from completing and returning an electronic self-audit form to a multi-day on-site audit. The requirements of the auditing companies vary greatly, making preparation for the audits a year-round necessity.”

Objectives of the NATA Safety 1st Ground Audit Standard:

- Achieve a standardized and consistent audit product acceptable to on-demand air charter operators, business aircraft operators, and other ground handling facility users
- Develop a program similar in concept to that currently utilized by airline ground handling facilities
- Follow an ISO-compliant format
- Create one audit standard to satisfy operators, customers, and others by including:
 - Best practices
 - Safety management systems (FAA and ICAO standards)
 - Regulatory compliance (TSA, EPA, and OSHA)
 - Eliminate the need for multiple audits from numerous aircraft operators by providing consistent audits
 - Maintain online registry to confirm successful completion

To find out more about NATA's Safety 1st Ground Audit visit www.nata.aero/groundaudit.

systems are a means to use daily/normal operations to help identify a company's strengths and weaknesses.

Sometimes there is confusion between the terms used in "system safety" vs. the language used in "threat and error management."

fore, must be worker-centered. Companies must make it easy for employees to speak up. Voluntary reporting systems are likely the best means to achieve this goal.

The FAA cooperates with the industry through programs such as the Aviation Safety Action

has shown that the SMS requirement for reactive, proactive, and predictive data is straightforward. It is already aligned with many of your existing data systems. The SMS guidance, when scaled to individual operations, makes good logical safety sense.



Ramp employees always see hazards before management does. Companies, therefore, must make it easy for employees to speak up.

Using the language of system safety, predictive data helps identify the small hazards in advance of assigning a risk level. Using the language of threat and error management, predictive data helps identify the threats so that they can be managed before they become errors.

In any language, it is a matter of identifying and addressing challenges as early as possible. How can you establish systems to gather and apply predictive data?

Most likely, frontline employees see the hazards before management does. Predictive data, there-

Program (ASAP). It protects workers from FAA action when they report mistakes early. Progressive companies use ASAP as a means to report not only events but also to report the conditions (threats) that may lead to events.

Another new program created by FAA with the Airlines for America (A4A) (formerly Air Transport Association), is the Maintenance and Ramp Line Operations Safety Assessment system (MRLOSA). MRLOSA is a formal means for workers to conduct peer-to-peer assessments during normal operations. Such data may be the very best means to gather and use predictive data.

The bottom line, the SMS maze is not that complex. This article

This article started by talking about being lost in a corn maze. However, we can see that SMS does not have to be complicated. The corn maze analogy is a tempting way to do a bit of "government bashing," but is an unfair way to depict a system that can help us achieve a bit more safety from an already safe system. **AMT**

Dr. William Johnson has spent more than 30 years as senior executive and scientist for engineering companies specializing in technical training and human factors before joining FAA in 2004. He is also an aviation maintenance technician and a pilot, and has been for more than 45 years.

SPOTLIGHT

ON GROUND SUPPORT



Battery-powered vertical lift

The Model 19AMI-DC manually propelled, battery-powered vertical lift from JLG Industries Inc. can lift up to 350 pounds to a working height of 25 feet 4 inches without the need for outriggers. Workers can make full use of the platform height in confined areas because the lift is only 34 inches wide. Standard features include nonmarking tires and a low maintenance anodized aluminum mast. Batteries can be recharged using the automatic built-in charger, and there is a battery discharge indicator to warn operators when the charge is getting low. The lift has an auto power battery saver that shuts off power when it is idle. There is also a 110-volt double receptacle on the platform. The standard platform measures 25.5 inches by 26 inches and is fitted with a quick change mount for optional platforms including an oversize gull wing, front entry platform, a narrow platform for access through acoustical tile, and an extension platform for 24 inches of additional reach over the front of the lift. *Visit www.jlg.com or call (717) 485-5161.*

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SPOTLIGHT

ON GROUND SUPPORT



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PRODUCTS OF THE MONTH



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Energy Efficiency Analyzer app



The newly released EQ™ Energy Efficiency Analyzer app for iPads allows users to easily calculate the efficiency of their compressed air systems and identify energy-saving opportunities, plus see the cost reduction potential. Quincy Compressor's Efficiency Quotient (EQ) app is a free

tool for manufacturing plant and facilities managers to personally take the first step in assessing electrical consumption for compressed air systems. The powerful assessment allows users to set a baseline of efficiency for their operations. A comprehensive guide is built in, making the computation easy. Enter the compressor configuration and local electrical energy cost for accurate computations. Download the app by searching "EQ Analyzer" on the categories page in the APP store or use the link below: <http://itunes.apple.com/us/app/eq-energy-efficiency-analyzer/id492166290?ls=1&mt=8>. EQ stands for Efficiency Quotient and is an industry standard for evaluating the overall efficiency of any compressed air system. It's also a patented, three-step method based on proven "best practice" solutions. The first step is to complete the Quincy Efficiency Quotient worksheet or use the iPad app. Add up the points and learn how efficient the compressed air system is, plus receive ideas on how to improve it. The second step is to verify your findings. An Authorized Quincy Compressor Distributor can assist. *To find one closest to you, visit: www.quincycompressor.com.*

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Precision cleaner

Petroferm Inc. Cleaning Products announces that BIOACT 105 Precision Cleaner has been approved by Bombardier per BAPS 180-009 as a general (G) manual solvent cleaner. BIOACT 105, a widely approved manual cleaner, is selected for fast dry times and

very low environmental and safety impact. For more than 10 years, BIOACT 105 has been used as a safe and low use-cost alternative to acetone, isopropyl alcohol (IPA), methyl ether ketone (MEK), and other toxic, low-flash point solvents. It effectively removes adhesive and tape residues, carbonaceous soils, heavy greases, lubricants, paint overspray, silicones, and waxes. BIOACT 105 offers excellent compatibility with substrates and materials used in aircraft MRO and OEM cleaning operations. It is available in liquid and pre-saturated wipes. BIOACT 105 is also approved by Bell Helicopter (Bulletin No: 1915), CFM (CP# 2719), GE Aviation (CO4-251), Gulfstream Aerospace (GAS115H), Honeywell Aerospace (C5049), International Aerospace Engines (CoMat 01-506/A) Pratt & Whitney (PMC 8929), Rolls-Royce (CSS255, 1/257S) and United Airlines (SOL3001-17). BIOACT is a registered trademark of Vantage Specialties Inc. *Visit www.petroferm.com.*

AviationPros.com/product/10617409



Rechargeable LED trouble light

Larson Electronics' Magnalight.com adds a versatile LED trouble light with hanging hook to its line of LED trouble lights that provides the convenience of a standard flashlight with the versatility of a hanging trouble light. Able to be operated in either a spotlight or floodlight mode, it illuminates an area 25 feet by 25 feet in floodlight mode for six hours on a single charge of its included lithium-ion battery. A three-way switch allows operators to easily switch between flood and spotlight modes, and an included steel hanging hook allows operators to conveniently hang the unit above work areas for easy task space illumination. In spotlight mode, this LED light produces 360 lumens and will run for 24 hours on a full charge. *For more information call (800) 369-6671 or visit www.Magnalight.com.*

AviationPros.com/product/10619479



PRODUCTS OF THE MONTH



CNC tool storage cabinets

Lista International Corp. offers its heavy-duty CNC tool storage cabinets and transporters, which form the core of the most complete storage system for the modern machining center. Available in a variety of sizes, heights and drawer configurations, the storage cabinets are equipped with tool holder frames and Lista tool holders to accommodate a variety of standard-sized CNC tool holders. The modular design of the cabinets allows the drawers and roll-out trays, which each have a 440-pound load capacity, to be easily reconfigured for changing needs. Lockable doors on the cabinets protect valuable tools. Lista's Tool Transporters feature a rigid steel frame and steel sheet side panels slotted at 1-inch intervals to accommodate trays, frames, shelves, and other accessories. Each transporter has a 2,400-pound capacity. Fully loaded transporters and cabinets can be safely and securely moved by forklift. The basic components of the Lista CNC storage system are Lista tool holders, a technically perfect solution to vertical storage of preset tools. Each tool holder is molded from ABS high impact and oil-resistant plastic, so it conforms to the shank of the tool holder, protecting it from damage. They provide great stability for a wide range of straight and tapered shank tools, and are ideal for mobile applications and all types of preset tool handling. *For more information call (800) 722-3020 or visit www.listaintl.com.*

AviationPros.com/product/10617993



Electric two-stage stationary air compressors

Jenny Products Inc. offers a line of electric two-stage, vertical-tank stationary air compressors. Especially suited for applications requiring greater pressure, the two-stage models provide 175 psi and displace between 9.1 and 43.6 cfm. They are available in 16 different models with 60- to 120-gallon air tanks, come with large flywheel for extra cooling, include thermal overload protection, and are lubricated with Jenny "Ultimate Blue" compressor pump oil. *For more information call (814) 445-3400 or visit www.jennyproductsinc.com.*

AviationPros.com/product/10617221

Portable video borescopes

Titan Tool Supply Inc. now offers two videoscope units designed for portable, on-site inspections. The articulating video borescopes feature two-way articulation (+ 120 degrees) with on-board (stand-alone) image processing and battery-powered operation. Model TTSVS.6-1 has a braided, stainless-steel waterproof insertion tube measuring 1 meter (40 inches) long with a diameter of 5.7 mm (0.224 inch), and is resistant to oil, fuel, and 3.5 percent concentrated saltwater. Model TTSVS.6-3 is identical to Model TTSVS.6-1, but with an insertion tube length of 3 meters (118 inches). The flexible videoscopes have a high-resolution 3.5-inch LCD screen with 320 x 240 pixels resolution for clear images, according to Titan Tool Supply. Four built-in LED lights with intensity control and automatic white balance enhance image quality, including on highly reflective surfaces. The units include 5X electronic zoom control; depth of field is 3 mm to 50 mm (0.118 to 1.970 inches) with a 65-degree wide field of view. The operating temperature range is 23 F to 150 F (-5 C to 65 C). The still image storage format is JPEG (720 x 625) and the video recording format is AVI (720 x 525). *For more information visit www.titantoolsupply.com or call (716) 873-9907.*



AviationPros.com/product/10617883

Ultrasonic parts washers

Graymills has added the BTV Series to its expanding group of ultrasonic parts washers. It is designed for use in maintenance/service areas that have challenging, small parts to clean yet be able to meet tight budgets. The parts washers are ideal for tight, job site, or "cell" cleaning applications where a small footprint combined



with fast, thorough cleaning is needed. Constructed of stainless steel, the corrosion-resistant tanks have a lift-off cover with handle and are available in five sizes, from 1/2- to 8-gallon capacities. Stainless-steel parts baskets are available, sold separately. Digital controls set and let the user monitor the ultrasonic and heater functions, control cycle times and temperature settings up to 175 F (80 C). The built-in heater allows for quick startup and use, cutting lost waiting time. Graymills' standard one-year warranty is extended to this small parts washer. *For more information call (888) 472-9645 or visit www.graymills.com.*

AviationPros.com/product/10617877

UV-A lamp

Spectronics Corp. offers the powerful Spectroline TRITAN 365, an ultra-high-intensity, multi-LED, broad-beam UV-A inspection lamp perfect for NDT applications. It features three ultra-hi-flux UV-A LEDs for NDT inspection, plus a white light LED to illuminate dark areas.



This versatile lamp meets MIL and ASTM intensity specs for FPI and MPI. Compact and lightweight, it weighs just 16 ounces (454 g). A convenient three-way rocker switch allows easy control of the light sources and a lightweight, angled lamp body ensures fatigue-free inspections. A rubber bumper with a Borofloat glass lens protects the LEDs from damage in high-risk situations. A built-in fan keeps the LEDs cool, providing optimum light output during lengthy use. The TRITAN 365 has a choice of an 8-foot (2.4 m) or extra-long 20-foot (6.1 m) power cord with an AC plug, and is available in 120-, 230-, 240- and 100-volt models. *For more information visit www.spectroline.com or call (800) 274-8888.*

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PRODUCTS OF THE MONTH

Mechanic rolling stool

Made with 5-inch wheels, the Tail Bone, a rolling stool, rolls easily over cords, air hoses, and debris with no tipping or flipping. Its unique bucket seat and tripod base provides a naturally stable working platform that is the most durable in its class. The Tail Bone makes working on lower areas of aircraft more manageable, particularly on rough floor surfaces with cracks and debris.

As the only American-made, big wheel rolling stool, it can roll over tools, parts, hoses, and uneven flooring.

And because it turns with the user, the legs stay out of the way for greater comfort and reduced back and knee pain.

The Tail Bone, and its bigger sister product, The Tail Bone Rough Rider,

employ a tripod design using high strength polypropylene copolymer, which is impervious to most solvents. The Tail Bone has a 130-pound rating per wheel and a seat height of 12 inches. The Tail Bone Rough Rider has a 250-pound rating per wheel and a seat height of 13 inches, making it a better option for outdoor use. Both have a 350-pound weight capacity and a limited warranty. *For more information visit www.bonecreeper.com.*

AviationPros.com/product/10621489



Wall storage system

Lista offers the Lista Storage Wall System, a flexible storage system that combines modular drawers, shelves and roll-out trays.

The Storage Wall System provides high cubic density storage, can utilize all available ceiling height and is available in two different depths. This unique storage solution is ideal for maintaining an organized and smooth-running parts departments. The system's unique combination of drawers, shelves, and roll-out trays optimizes storage space by allowing large, medium, and small items to be stored together. Drawers, shelves, and roll-out trays can be interchanged and re-configured within the system at any time. A variety of different drawer heights provides storage for a range of items from very small parts to large tools and supplies, so that every part has its own "home" within the system. With 100 percent full extension, the drawers and roll-out trays allow complete and easy access to stored items. Both the drawers and trays can hold up to 440 pounds each. They are available with a variety of lockable doors, including sliding, hinged, and tambour styles. Additionally, the Storage Wall offers an aesthetic appeal absent in traditional storage systems. *For more information call (800) 722-3020 or visit www.listaintl.com.*

AviationPros.com/product/10617987



Shackle-style hoist ring

Jergens Inc. adds the Shackle-Lok, a shackle-style hoist ring to its line. It combines the strength and safety of a hoist ring with the versatility of a shackle. Available in a wide variety of inch and metric sizes, it has internal ball bearings within a tamper-resistant design that provides smooth 180-degree pivot and 360-degree swivel action under load. Ideal for lifting situations where conventional swivel or stationary hardware may be impractical to use. With a unique, three-piece design, it is ideal for use in low-clearance OEM applications, general rigging applications, and permanent mounting on dies, molds, fixtures, and other heavy equipment. Easy-to-remove anchor shackles are interchangeable, and the bolt can accommodate a wide variety of alternate styles. Magnetic particle inspected Shackle-Lok is CE-certified and conforms to ASME B30.26 and RR-C-271F standards. Designed to work with numerous thread sizes, Jergens can manufacture any straight thread size, pitch, or length to meet specific lifting application requirements. *For more information visit www.jergensinc.com or call (877) 440-5438.*

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