



LogMate® Alarm Management Software

Alarm Management Plan Gap Analysis and Development

Gap Analysis...Insurance for your alarm management plan.

Improve confidence. Save planning time and money. Get it done.

TiPS customers who turned to our experts to write their alarm management plans are confident. Why? Because our experts based their plan on references such as API 1167 section 5, CRM articles, EEMUA 191, and ISA 18.2. You can free up your resources to work on other aspects of the CRM plan and ensure compliance with the PHMSA-CRM rule, too!

Why would a pipeline operator turn to TiPS for assistance in analyzing or writing their alarm management plan? TiPS experts, Dr. Doug Rothenberg and John Bogdan, focus on alarm management. They've trained hundreds of pipeline operators in alarm management principles and written plans for several major pipeline operators. They participate in the development of industry best practices as well as standards and regulations. Their detailed knowledge saves you time in researching and writing a plan, and even recovering from a below acceptable audit.

Reports from customers who have completed the pilot audit indicate that PHMSA inspectors are carrying the ISA 18.2 and EEMUA 191 guidelines, and refer back to them in the event a written alarm management plan does not meet what is considered to be industry best practices.

What *SHOULD* be in your written alarm management plan

TiPS suggests the *minimum* sections:

- General, including purpose of the alarm management plan and the alarm system, procedures, and responsibilities
- Identification
- Rationalization
- Detailed Design, including implementation, operation and maintenance monitoring and reporting management of change
- Audit

A TiPS Gap Analysis will identify areas of a current plan that are missing or not following best practices standards. If a plan has not been written or needs a complete re-write, TiPS offers Alarm Management Plan Development.

Gap Analysis

A TiPS expert will provide a completed worksheet with an itemized list of document weaknesses and a full narrative report. The package includes two days onsite, materials and offsite development of the analysis.

Alarm Management Plan Development

Includes a workshop and a delivered plan, an option exercised by more than 30 pipeline operators since the PHMSA-CRM rule was issued.

During the November 2010 PHMSA-CRM meeting in Houston, ***PHMSA officials gave no definitive indication of exact requirements for the written alarm management plan other than to point pipeline operators to ISA 18.2 and other best practices, such as EEMUA 191 and API 1167.*** A plan that does not follow these guidelines could be rejected.

A thorough plan is a fundamental piece of your alarm management program. The TiPS alarm management plan development and gap analysis processes help define the aspects of the alarm system, such as prioritization and alarms versus alerts, which is the foundation of the documentation and rationalization process. It will also reflect other aspects of a plan including the design, test, management of change cycle and implementation of the entire system.

A written alarm management plan is required by PHMSA 49 CFR Parts 192 and 195 Pipeline Safety: Control Room Management/Human Factors. Have it done and off your to-do list by the August 1 deadline. Call us at 1-800-242-8477 today.

About Us



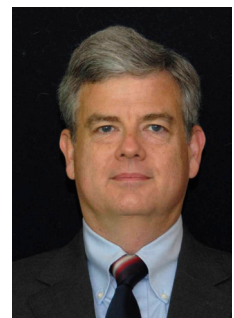
Since introducing LogMate®, the full-featured alarm management software in 1990, TiPS continues to deliver best-in-class process alarm management products and services worldwide.

Alarm management is our primary business. TiPS' product quality and longevity enable us to connect you with leaders in alarm management knowledge and services, including formative members of the ASM Consortium®, participants in the EEMUA® 191 effort, API 1167, and contributors to the ISA® 18 alarm management standards committees.

Dr. Doug Rothenberg is founder and President of D-RoTH, Inc., a leading world-class consulting firm in all areas of alarm management systems for industrial manufacturing and technology providers, and author of *Alarm Management for Process Control*. He holds a BSEE in Electrical Engineering from Virginia Tech, a MSEE from Case Institute of Technology, and a Ph.D. in Systems Engineering from Case Western Reserve University. He is past president of the Cleveland Instrumentation, Systems and Automation Society and remains active in both regional and national engineering and professional societies, including ISA and Sigma Xi. He serves on ISA 18 and API 1167 alarm management standards committees.



John Bogdan is a former Senior Engineer with major chemicals manufacturer DuPont, with over thirty years of industrial experience in design, start-up, and operation of complex control schemes in process industries including high hazard processes. He is a former Principal Consultant of Alarm Management with major controls company Invensys Process Systems, with expertise in alarm management, advanced process control, safety systems, and process optimization.



Call or email TiPS today to learn more about opportunities to develop or improve your alarm management plan, LogMate Alarm Management Software, rationalization, training, or just to chat.

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