IndustrySafe Safety Software and Airport SMS

Clare Epstein
Vice President
TRA, Inc.
Phone: 203-254-3093
E-mail: clare.epstein@industrysafe.com

Introduction

The Federal Aviation Administration (FAA) is proposing additional regulation that would require certified airports to develop and implement Safety Management Systems (SMS) for their entire airfield environment (including movement and non-movement areas) to improve safety at airports hosting air carrier operations. An SMS is a formalized approach to managing safety by developing an organization-wide safety policy, developing formal methods of identifying hazards, analyzing and mitigating risk, developing methods for ensuring continuous safety improvement, and creating organization-wide safety promotion strategies.

While a software system is not required to comply with the safety management system requirements of the proposed regulation, software can greatly benefit airports subject to Part 139 regulation. This white paper reviews the way in which the IndustrySafe Safety Software program in particular can assist airports in achieving a compliant SMS.

IndustrySafe Safety Software is a web-based safety data management solution developed by TRA so organizations can track hazards, incidents, corrective actions, training, claims, inspections, hazards, behavioral based safety, and more. IndustrySafe clients include leaders in manufacturing, construction, government, and transportation, including airports and ground services providers. TRA is proud to participate in the American Association of Airline Executives conferences and exhibits.

Overview of SMS

The Federal Aviation Administration (FAA) is proposing additional regulation that would require certified airports to develop and implement Safety Management Systems (SMS) for their entire airfield environment (including movement and non-movement areas) to improve safety at airports hosting air carrier operations. An SMS is a formalized approach to managing safety by developing an organization-wide safety policy, developing formal methods of identifying hazards, analyzing and mitigating risk, developing methods for ensuring continuous safety improvement, and creating organization-wide safety promotion strategies.

The proposed regulation involves airports implementing the SMS throughout the airport environment, including the movement and non-movement areas (including runways, taxiways, run-up areas, ramps,

apron areas, and on-airport fuel farms). The landside environment such as terminal areas are not covered this regulation.

The regulation calls for developing and implementing a means for monitoring safety performance; establishing and maintaining a hazard reporting system that provides a means for reporter confidentiality; and developing and implementing a process for reporting pertinent safety information and data to the accountable executive on a regular basis.

SMS is based on four components: Safety Policy, Safety Risk Management (SRM), Safety Assurance, and Safety Promotion.

Benefits of Safety Software for SMS

Using Safety Software to assist with SMS compliance has several benefits that result in successful and safe airports.

- **Compliance with Recordkeeping Components.** The proposed regulation requires recordkeeping and document retention of hazard analysis, safety communication, training records, and more. Safety Software allows easy to retrieve access to records and data.
- **Reduction of Administrative Overhead.** Achieving SMS success requires data collection and administrative reports. Safety Software can automatically generate required reports and collect data more quickly and easily than a manual process.
- **Increase Employee Involvement.** One of the components of the SMS is allowing employees to report hazards without fear of reprisal. Safety Software can provide a self service portal that allows employees to report hazards and incidents
- **Increase Efficiency and Accuracy.** Safety Software can help ensure that appropriate data is collected in a streamlined process.
- **Standardize Procedures and Processes.** For airports, safety software can promote consistency in recordkeeping and reporting. The forms for reporting incidents, hazards, corrective actions, etc. can be standardized for the entire organization. All groups within the organization can report on common data elements and common safety metrics can be developed for the entire organization.

Specific Compliance Assistance with IndustrySafe Software

In general to the larger benefits described above, IndustrySafe Safety Management Software can provide direct and tangible benefits for specific components of the *proposed* SMS requirements. Specific components of SMS are detailed below, as well as the way in which IndustrySafe can assist in achieving compliance with those components. The tables below also include references to the specific modules of IndustrySafe that assist in achieving compliance for each component. Each module of IndustrySafe is easy to use, can be configured for your organization, and includes additional features such as supporting documentation, automatic email notifications, and detailed reports and analysis.

Safety Policy

Proposed Ref.	Selected SMS Components	IndustrySafe Can Help:
139.402(a)(7)	**Defines methods, processes, and organizational structure necessary to meet safety objectives**	Dashboard provides graphic display of key safety indicators and goals. **Go to:** IndustrySafe Safety Software>Dashboards

Safety Risk Management

Proposed Reg.	Selected SMS Components	IndustrySafe Can Help:
139.301 (b)(9) 139.402 (b)(1-4)	**Identify safety hazards;** **Analyze and Mitigate Hazards;** **Documentation of Hazards, Analysis, and Mitigation and Process (up to 36 months)**	Allows for tracking, documenting, and developing hazard controls including corrective actions for hazard correction. Also includes Risk Matrix! **Go to:** IndustrySafe Safety Software>Hazards **Go to:** IndustrySafe Safety Software>Corrective Actions

Safety Assurance

Proposed Reg.	Selected SMS Components	IndustrySafe Can Help:
139.402 (c) (1)	**Develop and implement a means for monitoring safety performance;**	Dashboard, Incidents, Inspections, Hazards, and Corrective Actions Modules provide means to monitor safety performance **Go to:** IndustrySafe Safety Software>Dashboards **Go to:** IndustrySafe Safety Software>Incidents **Go to:** IndustrySafe Safety Software>Inspections **Go to:** IndustrySafe Safety Software>Hazards **Go to:** IndustrySafe Safety Software>Corrective Actions
139.402 (c) (2)	**Establish and maintain a hazard reporting system that provides a means for reporter confidentiality;**	Hazard Module allows for employees to report hazards (anonymously if desired) **Go to:** IndustrySafe Safety Software>Hazards **Go to:** IndustrySafe Safety Software>Hazard Public Web Form

| 139.402(c)(3) | Develop and implement a process for reporting pertinent safety information and data to the accountable executive on a regular basis. | IndustrySafe allows for quick and easy reporting and notifications including automatic email alerts and dashboards.

Go to: IndustrySafe Safety Software>Dashboards |

Safety Promotion

Proposed Reg.	Selected SMS Components	IndustrySafe Can Help:
139.301 (b)(1)	**Training documentation for 24 months**	Documents, tracks, notifies, training activity throughout organization **Go to:** IndustrySafe Safety Software>Training
139.301 (b) (10)	**Safety Communication including lessons learned and other safety critical information-12 Months**	Document Library to track all documentation, policies and procedures; records of all email notifications and alerts **Go to:** IndustrySafe Safety Software>Home

Conclusion

IndustrySafe Safety Software can assist organizations in achieving compliance with SMS, by providing easy to use tools for tracking, notifying and reporting on key safety data. More information is available on the IndustrySafe website at www.industrysafe.com or by contacting TRA directly by phone: 215-546-9110 or via email at sales@industrysafe.com