Ministry of Transportation
and Telecommunications

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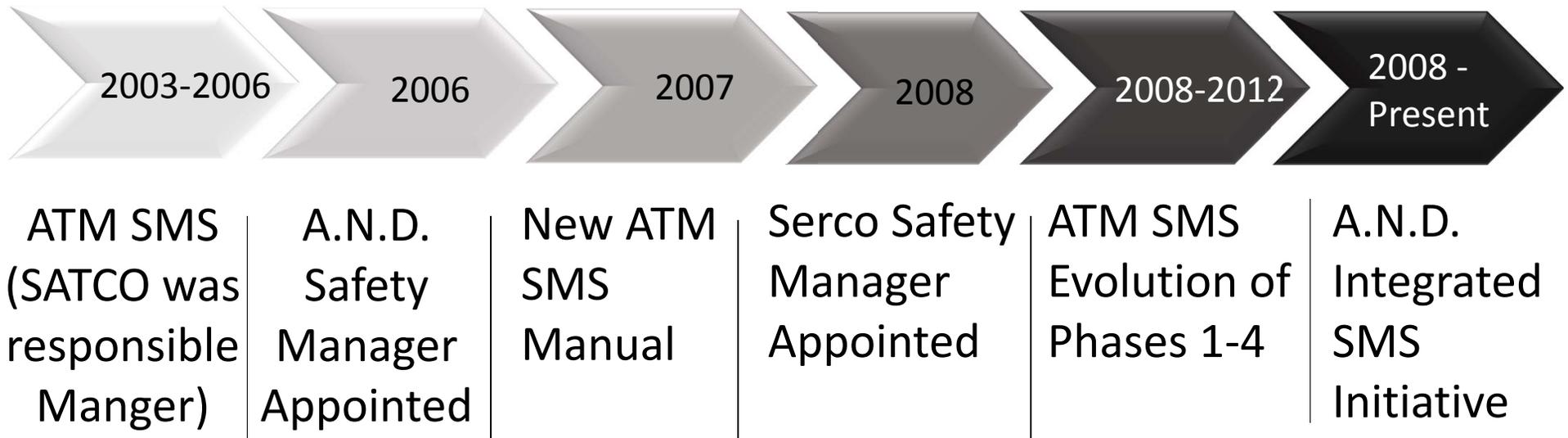
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Bahrain Integrated SMS

Bahrain Integrated SMS

2003-2006	2006	2007	2008	2008-2012	2008 - Present
ATM SMS (SATCO was responsible Manger)	A.N.D. Safety Manager Appointed	New ATM SMS Manual	Serco Safety Manager Appointed	ATM SMS Evolution of Phases 1-4	A.N.D. Integrated SMS Initiative

PHASE 1

Element 1.1

Training

- Establish a SMS implementation team.
- The team should comprise of representatives from the relevant departments. The team's role is to drive the SMS implementation from the planning stage to its final implementation. Other functions of the implementation team will include but not limited to:

Resources

i) Responsible for developing the SMS implementation plan.

ii) Ensuring adequate SMS training & technical expertise of the team to establish effective Implementation of the SMS elements and related processes.

iii) Monitor and report on the progress of the SMS implementation and providing regular updates and coordination with the SMS Accountable Executive

PHASE 1

Element 1.6

Resources

- Develop an SMS implementation plan on how the organization will implement the SMS on the basis of the identified system and process gaps resulting from the gap analysis.

ATM Safety Office

Element 1.3

Resources

Identify the key SMS person (safety/ quality function) within the organization that will be responsible for administering the SMS on behalf of the Accountable Executive.

Training

PHASE 1

Element 4.1 Training and Education

a) conduct training needs analysis;

b) Organize and set up schedules for appropriate training for all staff according to their individual responsibilities and involvement in the SMS;

c) Develop safety training considering;

      i. initial (general safety) job-specific training, and

      ii. recurrent training;

d) Identify the costs associated with training;

e) Develop a validation process that measures the effectiveness of training; and

f) establish safety training record system.

Best Practice Resources Training Provided

PHASE 2

Element 1.1 Management Commitment

a) Develop a safety policy.

b) Have the Accountable Executive sign the safety policy.

c) Communicate the safety policy through the organization.

d) Establish a review schedule for the safety policy to ensure it remains relevant and appropriate to the organization.

e) Establish safety objectives (SPIs, SPTs,etc)

f) Establish the SMS requirements for subcontractors

ATM Policy

A.N.D. Policy

Resources

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PHASE 2

Element 1.2 Safety Accountabilities

a) Define safety accountabilities and communicate those through the organization.

b) Establish the Safety Action Group (SAG)

c) Establish Safety/SMS coordination committee.

d) Define clear functions of the Safety Action Group (SAG) and the Safety/SMS coordination committee

e) Establish lines of communication between the safety services office, the Accountable Executive, the Safety Action Group (SAG) and the Safety/SMS coordination committee

Documentation Not Enough
Senior Management Education
SAG Education
Resources

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PHASE 1

Element 1.4 Coordination of Emergency Response Plan

a) Review the outline of the ERP related to the delegation of authority and assignment of emergency responsibilities.

b) Establish coordination procedures for action by key personnel during the emergency and c) return to normal operations.

c) Identify external entities that will interact with the organization during emergency situations.

d) Assess their respective ERPs.

e) Establish coordination between the different ERPs.

f) Incorporate the coordination among different ERPs in the organization's safety management systems documentation.

Assessment Education Resources

PHASE 3

Element 2.1 Hazards

a)Establish a voluntary reporting procedure.

b)Establish program/ schedule for systematic hazard review on all applicable aviation safety-related processes/ equipment.

Element 2.2 Risk Assessment and Mitigation

a) Establish safety risk management procedure

b) Develop and adopt relevant safety risk matrices

Established ATM Education Resources

PHASE 3

Element 3.1 Safety Performance Monitoring and Measurement

a) Establish internal occurrence reporting and investigation procedure.

b) Establish safety data collection, processing and analysis for high consequence outcomes.

c) Establish high-consequence safety indicators (initial ALoSP) and their associated target and alert settings.

d) Agreement reached with the State oversight authority on safety performance indicators and safety performance targets.

Internal Training

Best Practice

Measure

PHASE 3

SOI/TOI Signatures

Element 3.2 Management of Change

a) Establish a formal process for the management of change

b) Ensure management of change procedures do address impact on existing safety performance and risk mitigation records before implementing new changes.

Risk Register

c) Establish procedures to ensure that safety assessment of new aviation safety related operations, processes and equipment are conducted (or accounted for) as applicable, before they are commissioned.

OCR (Operational Change Request)

PHASE 4

Risk Register

Element 2.1 Hazard identification

a) Integrate the hazards identified from occurrence investigation reports with the voluntary reporting system.

b) Integrate hazard identification & risk management procedures with sub-contractor or customer SMS where applicable

Tender Process

PHASE 4

Internal Safety Audit

Element 3.3 Continuous Improvement of the SMS

Education

a) Establish or integrate SMS audit into existing internal & external audit programs

b) Establish other operational SMS review/ survey programs where appropriate

Safety Culture Survey

Resources

PHASE 4

Proactive Training

Element 4.1 Training and Education

a) Completed SMS training program for all relevant personnel.

"Buy-in"

Central Safety Library

Element 4.2 Safety Communication

b) Establish mechanisms to promote safety information sharing and exchange internally and externally.

Info Sharing vs Confidentiality

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Summary

Documentation Resources Training

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Thank You