

NANSC SMS Implementation Experience

Amr Mokhtar

ATC Operation Safety Manager

NANSC of Egypt

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OUTLINE

- Introduction
- Status of implementation
- Achievements
- Future Challenges
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introduction

- NANSC Started with the study of the operation system to determine the size and complexity of the operations. (2006) including gap analysis.
- Setting the Company SMS Policy in manner that covers the nonpunitive Policy as an essential part for safety culture.
- Set an accurate description of the accountabilities and responsibilities towards safety for all layers of organization.

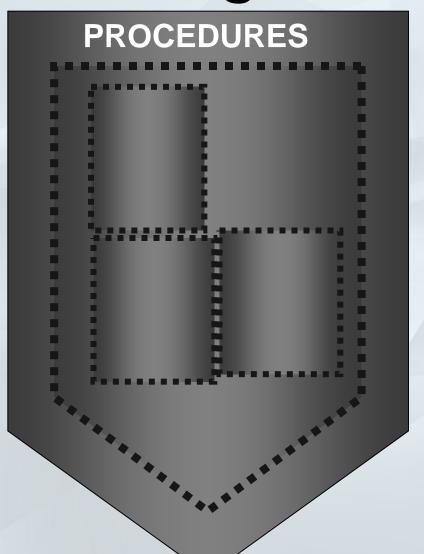
(Top management – line management – all staff and safety personnel)

- Produce the SMS manual which contains :
- General part
- Safety organization
- Safety performance monitoring
- Safety assessments
- Safety audit
- Safety promotion

SMS design principles

- Integration
- Optimization
- Continuous improvement.
- Analytical
- Human performance & organizational factors
- Change
- Open reporting & standardization

Strengthening Defences



SAHARA REPORT

(Safety And Hazard Advice Requiring Assessment)

Please write clearly, outline the problem and detail your possible solution if applicable. Forward your completed report to ATS Safety Manager or Unit Safety Representative.

PART 1 – Safety Concern	
SAFETY CONCERN:	
POSSIBLE SOLUTION(S):	
NAME:	
DEPARTMENT:	DATE:

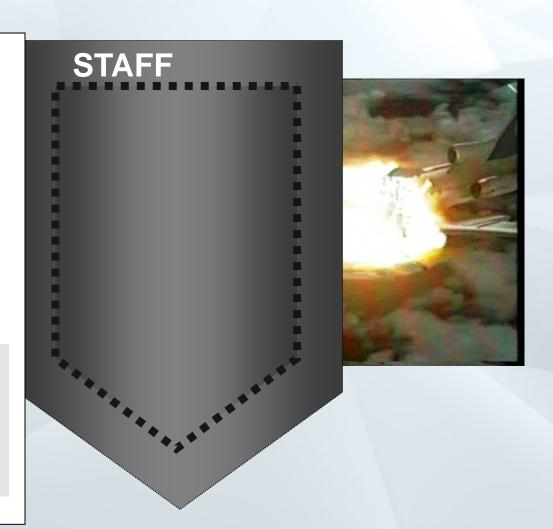
Training



TRAINING DIRECTORATE

NANSC ATC

Unit Training Plan
Cairo International Airport
& Area Control Centre



Competency

AIR TRAFFIC CONTROL OFFICER CERTIFICATE OF COMPETENCE

To be completed and forwarded to the General Director Area Control Centre.

Name:	Rating:					
First / Subsequent / Renewal						
ASSESSMENT	Date Completed	P PASS F FAIL	REMARKS			
1. Practical						
Written/Oral Knowledge Assessment						
3. ECT						
4. Audio Review						
OVERALL RESULT						

Marking a "P" in each category indicates the ATCO being rated is fully satisfactory in the performance of job related duties.

Signature of ATCO:	Date:
Signature of LCE:	Date:
Signature of GDACC:	Date:



Status of Implementation

 NANSC started the implementation phase at 2007 with the second pillar (Safety Risk Management) and the forth pillar (Safety promotion) in parallel.

Note: this will start reactively and once experience is gained it will be reactive and proactive at the same time.

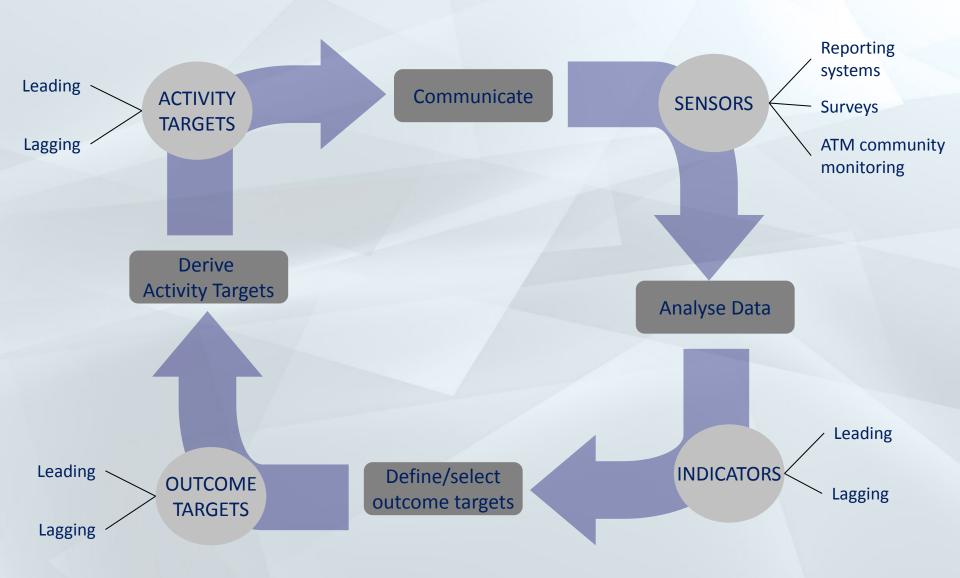
- Safety dept. started to build up a specialized SMS team , it took 3 years.
 And it is continuing .
- NANSC fosters an effective partnership and collaboration in all safety matters with ECAA.
- Hazard and risk assessment is conducted qualitatively and quantatively according to data availability, with reference to ALARP methodology.

 Then after a period of time we started the assurance activities like (safety reviews, internal audits)

To complete the cycle of SMS and to raise the effectiveness of SMS.

- Set the key performance indicators for SMS :
 - Occurrence number and classes.
 - English language proficiency for controllers.
 - Number of safety bulletins and briefings distributed to staff.
 - Safety culture measurement within operation units.
 - Identification of key risk areas.
 - Change management processes.
 - Number of awareness courses and workshops conducted.

Safety Monitoring Loop



Achievements

 Change the operation staff and management point of view and concept about safety. (there is a considerable progress)

(but still need a lot of work to be done in this field)

- -In the context of safety promotion, a continuing dissemination of safety bulletins and briefings to all staff have been an effective method of raising safety culture and maintain communication with operational staff.
- -design and production of human factors awareness document to be inserted in ATC training syllabus. (including TEM conceptual model)
- -unification of risk assessment methodology in ATM operations.

ACHIEVEMENTS AT LAST 3 YEARS

Turn the SMS concepts and policy targets into a specific procedures

SMS Training

Expand of Implementation

Investigation

System Based Approach

Integration of SMS awareness and questions within the rating process for ATC and technical personnel

To 5
international
airports
HGD
SHARM
LXR
ASN
BORG AL ARAB

Total change
Of the process
to depend on
analysis of H.F
and root cause
rather than
blame game

- Employ sms to bridge the outputs of other dept. for system benefits .
- Dept of competence check.
- Dept of flow control
- Dept of civil military coordination

National Air Navigation Services Company Local Competency Examination Scheme - TAGHEER Report

National Air Navigation Services Company Local Competency Examination Scheme - TAGHEER Report

TAGHEER Report Process Parts 1-3

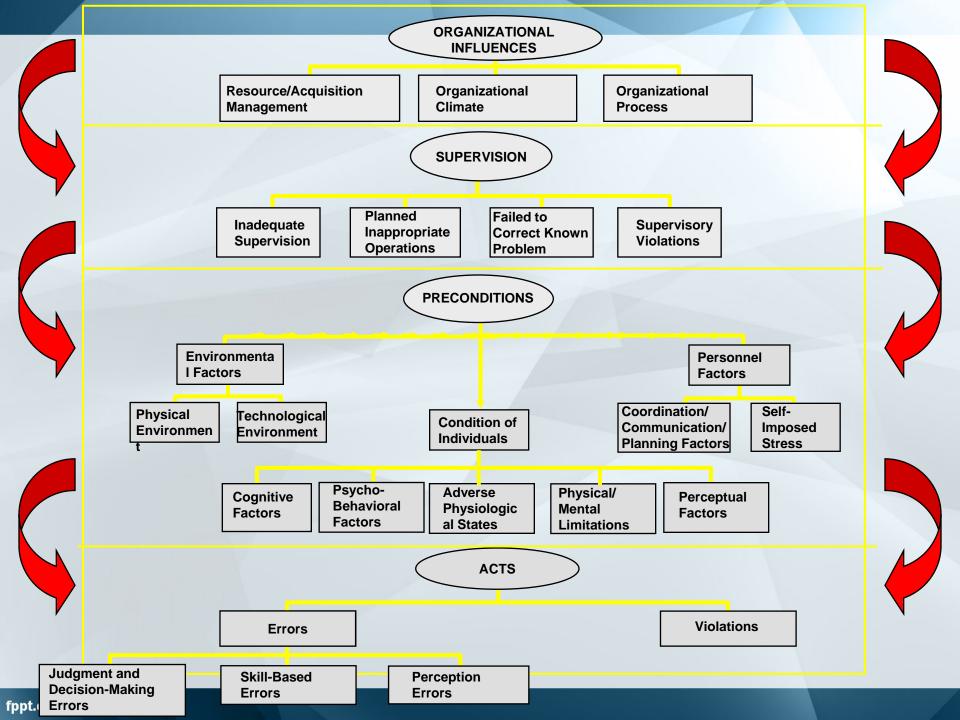
	ER Report
(Threat Assessment Guidano	Highlighting Early Evaluation of Risks)
Location:	Date:
PART 1 - PROPOSAL	
Title:	
Reason for Change:	
Details of Change:	
Interested Parties:	
Functional Hazard Assessment (FHA)	
Hazard(s):	
Proposed Date of Introduction: Originator/Comments:	
organico/comments.	
Name: Position	: Section:
Date: Signatu	re:

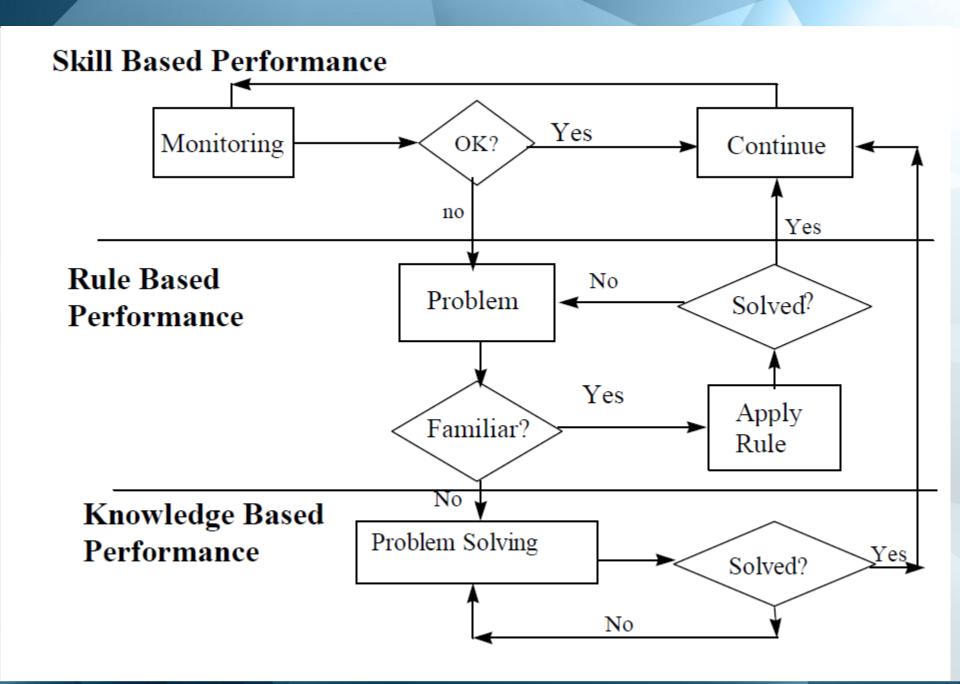
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National Air Navigation Services Company Local Competency Examination Scheme - TAGHEER Report

TAGHEER Report							
(Threat Assessment Guid	(Threat Assessment Guidance Highlighting Early Evaluation of Risks)						
PART 2 – Preliminary System Safe	ty Analysis (F	SSA)					
Hazard(8):							
Incident Sequence:							
modern objection.							
Severity / Probability	•						
Risk Assessment: (See table)	3	2	1				
Safety Requirement:							
Mitigation:							
and gallerin							
Mitigated							
Severity / Probability	3	2	1				
Risk Assessment: (See table)							

TAGHEER Report										
(Threat Assessment Guidance Highlighting Barly Evaluation of Risks)										
PA	RT 3 – /	ASSES	SMENT	SUMM	IARY ar	nd APP	ROVAL			
			9	POST MITIGATION		TION			e	
Hazand	Probability	Severity	Risk Classification	Probability	Severity	Risk Classification	Action	Person	Responsible	Date Action Completed
1										
2										
3										
API	ROVA	L by Sa	afety M	anager						
Remarks:										
Nar	ne:						Signature:			
							Date:			
APPROVAL by General Director Remarks:										
Nar	ne:						Signature: Date:			





Future Challenges and Requirements

- Increase the degree of SMS implementation by establishing a better communication link between operation units and all its interfaces.
- Continue to build up a competent team of operational safety specialists.
- The SMS is not yet mature at ATC units in a number of aerodromes, we plan to work at this issue for the next year.

Commitment to SMS

•Documents alone will not guarantee development of a positive safety culture.



•Employees must see evidence of management commitment to SMS.



Management Attitudes & Actions = the most important factor.

Relation with CANSO

- NANSC was the first ANSP from the Middle East to join CANSO.
- ♦ NANSC is one of the founded members of CANSO in the Middle East in 2009.
- Provided NANSC with a mechanism to exchange information and best practices which assist NANS in improving its SMS, and overall safety performance;
- NANSC always updated with all related Safety ATM best practices and researches, and publications.
- In close coordination in regard any Global or Regional Safety ATM issues.
- By participating in the SMS implementation measurement surveys, NANSC could determine its current status and gave us directions about how higher levels of SMS implementation can be achieved in the future.

Thank You