





ATM Contingency Planning Workshop

SANS Journey









OEJD FIR Overview

ATM Emergency Operation Concept

ATM Contingency Operation Requirements

ATM Contingency Documentation

ATM Contingency Annual Exercises





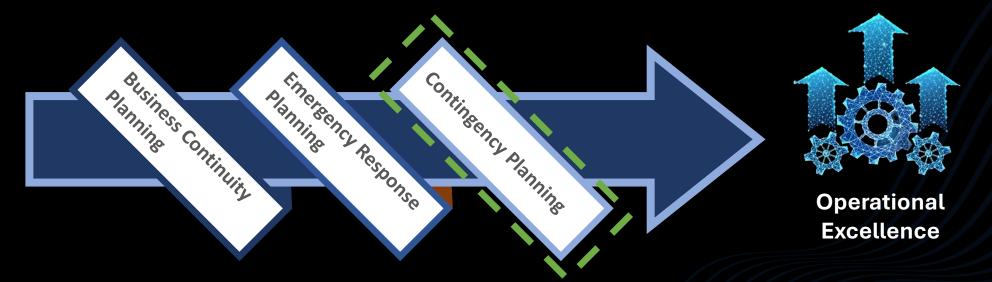




Introduction

BE.YOND>





Concept

Operation Requirements

Documentation

Exercises

Observations & Lesson Learned



SANS RoadMap



OJED FIR Overview

BE.YOND



2 Million Square Kilometers







≈ 208K Overflying Flights



≈ **393K** International Flights



≈ 241K Domestic Flights



29 Airports

Controlled Airports

14

FIS Uncontrolled Airports Airports

Operated By

2

Area Control Centers 10 Approach

Sectors

Tower Units

AFIS Units

10



ATM Emergency Operation Concept

3 E.YOND

Contingency Category 1

1

When the ATS facility is **partially unavailable** to provide ATS in cases of foreseeable events caused by unexpected interruptions.

Ex: Degradation of CNS/ATM system, Loss of one CWP, Loss of one radar by-pass for ATC facility, Partial loss of power supply.

Contingency Category 2

When the ATS facility is **totally unavailable** to provide ATS in cases of foreseeable events which can be managed within a local alternative facility such as a simulator or backup facilities - CWPs (inside the city).

Contingency Category 3

3

Contingency Category 4

When Jeddah ACC or Riyadh ACC are totally unavailable to provide ATS.

Ex: Airport unavailable, Natural disaster (flood, earthquake), Security reasons, Public Health Emergencies.

When the complete loss of **Both Jeddah and Riyadh ACCs** (international flights to transit the Jeddah FIR).

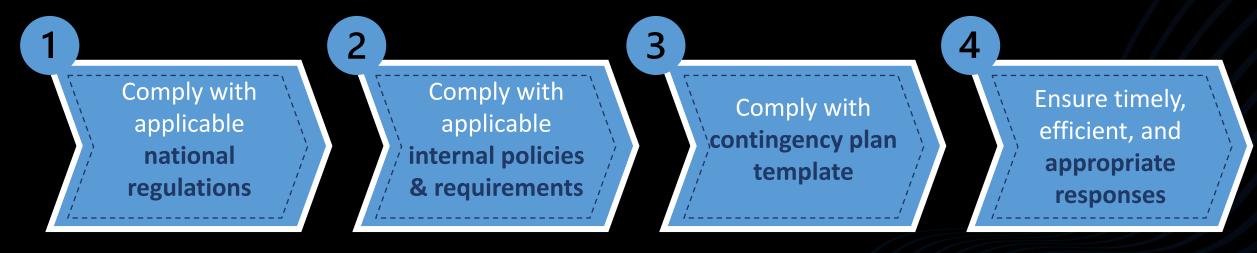
Ex: Natural disaster (flood, earthquake), Security reasons. etc.

Category 4 - A | Airspace Safe, No ATS.

Category 4 - B | Airspace Not Available.



ATM Contingency Operation Requirements – Operational BEYOND



Main & alternative facility awareness

Ensure staff
complies with the determined responsibilities

Ensure alignment / with external / stockholders

Ensure alignment/with internal stockholders



ATM Contingency Operation Requirements – Technical

BEYOND

1

2

3

4

5

Ensure the alternative (backup) facility is separated from the main facility in a separate building

and independence
of all safetysignificant systems
or equipment

Ensure the alternative (backup) facility is ready to provide the attended service in the attended AoR

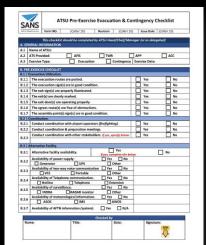
Ensure the alternative (backup) facility systems database is up-to-date and identical to the main facility

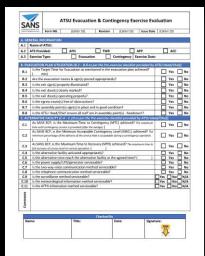
Develop the required transportation service agreements for ATCOs relocation when required

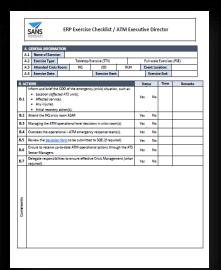


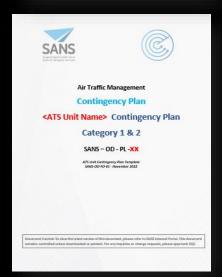
ATM Contingency Documentation

BE.YOND

















ATM Contingency Documentation





CHAPTER ONE – ADMINISTRATION

CHAPTER TWO – ORGANIZATION

CHAPTER THREE –
GENERAL PROCEDURES

CHAPTER FOUR - SCENARIOS

1.1. INRODUCTION.

2.1. COMMAND AND CONTROL

3.1. SANS SERVICES.

4.1. INTRODUCTION.

1.2. OBJECTIVES.

LEVELS.

3.2. ATM CONTINGENCY LIFE CYCLE.

4.2. BUSINESS IMPACT ANALYSIS AND RISK

1.3. SCOPE.

2.2. TEAMS STRUCTURE.

3.3. EMERGENCY/ CONTINGENCY LEVELS.

ASSESSMENT.

1.4. MANAGEMENT & REVIEW.

2.3. TEAM RESPONSIBILITIES.2.4. CHAIN OF COMMAND.

3.5. ACTIVATION.

1.5. TRAINING & EXERCISES.1.6. ALLOCATING RESOURCES.

2.5. ESCALATION.

3.6. EVALUATION (Lessons Learned).

3.4. READINESS LEVELS.

4.3. SCENARIOS ANALYSIS.

CHAPTER FIVE - ATM CONTINGENCY PLAN



5.1 STATES AND FIRS AFFECTED

5.2 CONTINGENCY ROUTE'S NETWORK

5.3 ATS RESPONSIBILITIES

5.4 AIR TRAFFIC MANAGEMENT AND CONTINGENCY PROCEDURES

5.5. AERONAUTICAL TELECOMMUNICATION PROCEDURE

5.6. SAR PROCEDURE

5.7. ICAO REGIONAL OFFICE



ATM Contingency Annual Exercises

BE.YOND>

Each ONE [1] year

Tabletop Exercise (TTX)



Each TWO [2] years

Full-scale Exercise (FSE)



Contingency Exercises during 2023



20 Exercises

19 Airport



24 Department



79 Participants



104 Observations



5 Lessons Learned

