



Federal Office for Civil Aviation (FOCA)

Task Resource Analysis

14th of October 2015



ICAO Manual

AIRPORT SERVICES MANUAL PART 1

RESCUE AND FIREFIGHTING



Fourth Edition — 2014

Doc 9137 – AN/898 - Part 1



ICAO Manual



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<http://www.bazl.admin.ch/dokumentation/grundlagen/02643/02644/index.html?lang=fr>



ICAO Manual

- GENERAL CONSIDERATIONS
- LEVEL OF PROTECTION TO BE PROVIDED
- AIRPORT FACILITIES AFFECTING RESCUE AND FIREFIGHTING SERVICES
- COMMUNICATION AND ALARM REQUIREMENTS
- FACTORS IN THE SPECIFICATION PROCESS FOR RESCUE AID FIREFIGHTING VEHICLES
- PROTECTIVE CLOTHING AND RESPIRATORY EQUIPMENT
- AMBULANCE AND MEDICAL SERVICES
- EXTINGUISHING AGENT CHARACTERISTICS
- FIRE STATIONS
- PERSONNEL (TASK RESOURCE ANALYSIS)
- EMERGENCY ORGANIZATION
- AIRCRAFT FIREFIGHTING AND RESCUE PROCEDURES
- RESCUE OPERATIONS IN DIFFICULT ENVIRONMENTS
- TRAINING
- AIRCRAFT FUELLING¹ PRACTICES
- AVAILABILITY OF RFF INFORMATION
- PREVENTIVE MAINTENANCE OF VEHICLES AND RESCUE EQUIPMENT
- HUMAN FACTORS PRINCIPLES



Task Resource Analysis

Task to check

The guidance describes the stages that should be considered by an airport operator in carrying out a Task Resource Analysis to establish justification as to the minimum number of qualified / competent personnel required to deliver an effective airport RFF Service RFFS to deal with an aircraft incident / accident.

A risk based approach must analyze the following items:

- Description of an aerodrome
- Location of fire station
- Type of aircraft using the airport
- Aerodrome category



Task Resource Analysis

- Response Time
 - Minimum number of rescue and fire fighting vehicles
 - Minimum usable amounts of extinguishing agents
 - Minimum discharge rate foam solution / minute
 - Rescue and fire fighting equipment
 - Qualification and training of the personnel
 - Accident scenarios
-
- If it must be deviated from the minimum required number of personnel according the Task Resource Analysis a Safety Assessment has to be submitted to FOCA.



Task Resource Analysis

Conclusion

- The Task Resource Analysis must be carried out in as much detail as possible. The goal must be to provide the necessary resources and infrastructure to manage a corresponding accident occur at the airport.
- To develop a Task Resource Analysis the following questions are to ask:
 - What is done?
 - Why is it done?
 - When is it done?
 - Where is it done?
 - How ist it done?
 - Who does it?



Task Resource Analysis

Implementation

- Template:
 - ICAO Doc 9137, Airport Services Manual Part I, Rescue and Fire Fighting (RFF)
 - BAZL Guideline AD I-005 *Safety Risk Management on airports*
- After entry into force FOCA RFF Directive (spring 2015)
- Letter to concerned airports in January 2015
- Submission Task Resource Analysis to FOCA in spring 2015



Task Resource Analysis

Analyse Task Ressource Analyse - RFF											
Flughafen	Eingang	Kat 1	Kat 2	Kat 3	Kat 4	Kat 5	Kat 6	Kat 7	Kat 8	Kat 9	Kat 10
Genève	22.03.2015						9-12 1 Fahrwerk/ 1 Reaktor	9-12 1 Fahrwerk/ 1 Reaktor	9-12 1 Fahrwerk/ 1 Reaktor	9-12 1 Fahrwerk/ 1 Reaktor	
							12 2 Fahrwerke / 2 Reaktoren	12 2 Fahrwerke / 2 Reaktoren	12 2 Fahrwerke / 2 Reaktoren	12 2 Fahrwerke / 2 Reaktoren	
Zürich	16.03.2015										16
Bern	16.03.2015				4 Non- Schedule/Charter	6 GA, Linie / Chartermaschine	6 GA, Ferry, Schedule/Charter	8			
					5 Schedule/Charter	7 Schedule/Charter					
Samedan	05.12.2014	AD I-001	AD I-001	AD I-001	4	4 Ferry	4 Ferry				
						6 Pax	6 Pax				
Lugano	26.03.2015						7				
Sion	24.03.2015			3	4	5	6				
Buochs	13.04.2015	AD I-001	AD I-001	AD I-001	6	10					
Altenrhein	02.04.2015	AD I-001	AD I-001	AD I-001	4	5	7				
Eplatures	04.05.2015	1+5	1+5	1+5	1+5						
Saanen	24.03.2015		12	12	12						



Task Resource Analysis

Questions?

