

Francesco PILO; Salvatore CORRAO; Damiano ZURLO;

Italian National Fire and Rescue Service

OVERCOME (Cross-border cOoperation in Managing Emergency)

CBRNE Coordinators

Training pre-Testing Exercise

ITEM No.1

Operating Guidelines

Q & A



Where we started...

CBRN MODEX LYON, FEBRUARY - MARCH 2023

Airports:

Communications

Comments

Attached find the daily report of CBRNET GER ATF on the first mission day.

121936_20230218_CBRNET_GER_ATF_daily_report.docx

National Fire Brigade

MINISTRY OF INTERIOR

DEPARTMENT OF FIRE FIGHTING, PUBLIC RESCUE AND CIVIL DEFENSE
CENTRAL DIRECTORATE FOR EMERGENCY AND TECHNICAL RESCUE

CHEMICAL LAB ANALYSIS GC - OUTPUT FORM

IT/CBRNET/VVF1

OPERATIONS

Ops-TMP-008

Version 1.0 February 2023

WORKSHEET

ENVIRONMENT SAMPLING - UNKNOWN SUBSTANCES DETECTION

SAMPLE ARRIVAL DATE : 01/03/23

SAMPLE CODE: CBRN-IT-C/28.02.2023/10.20/A1.2/AF/LIQ

INSTRUMENT CODE: US10535018

SAMPLE TRANSPORT MODE: -AMBIENT T°: YES NO
-REFRIGERATED T°: YES NO
-AWAY FROM THE LIGHT: YES NO
-ALIQUOTES: YES NO

ANALYSIS START DATE : 01/03/23

ANALYSIS START TIME : 00:30

SAMPLE LOG NUMBER: A1/2

LAB OPERATOR NAME: SIMONCELLI - ZANGARINI

Check the performance of the instrument by playing a tune

Open the evidence bag and verify the condition of the specimen

Perform an environmental blank and analyze the blank in GCMS with the same method used for sample analysis

Make a blank subjecting it to gas chromatographic analysis with the same method used for sample analysis.

Pierce the cap of the glass jar with an awl and apply a porous septum

Heat the jar, tellur or vials at T° and timing defined by the procedure used:
Heating start time: / Heating end time:/
Heating start temperature: / Heating end temperature: /

Remove the container from the heating device and immediately expose the SPME fiber for 5-15 minutes.

RO CBRN DET

GENERAL INSPECTORATE FOR EMERGENCY SITUATIONS

SOP-09-ROCBNET

Information management

RO CBRN DET - POST MISSION REPORT

GENERAL INFORMATION (description of situation)

TOTAL Energies - Feyzin Platform Incident - as a result of the storm several units in the Feyzin Refinery in Lyon where damaged and chemical substances were spilled in the water.
There were reported spills of acetonitrile.

NOTIFICATION RECEIVER

NOTIFICATION DATE&TIME: 14.25 Notified by: SDMIS

INFORMATION RELATING TO THE INCIDENT

Departure time: 17.45 Returned to base at: 23.50

Address/location - TOTAL Energies - Feyzin Refinery Platform

REFERENCE POINT: -

COORDINATES (DATUM // LAT-LONG): 45.6563227, 4.838251

INITIAL INFORMATION AFTER RECOGNITION

TL decided to form one recon team and requested from BoO another 2 teams, 1 for sampling and one for decon.

VICTIMS / PERSONS INVOLVED

Number of victims: 0 Number of contaminated victims: 0

Victim status (color code) 0 Number (Dead): 0

DECONTAMINATION STATUS:

Personal decontamination installed: Y Team that installed decon point: 4

Number of victims decon.: 0 Number of personnel decon.: 6

Analytische Task Force

Post-Mission-Report

Dokumenten Nr.: DE 01-39
Datum: 16.02.2023
Rev.0 16.02.2023

General Information

Mission No. 01 Date 2023-02-28

Scene Information

Address Total Refinery, Seyzin, France

Coordinates 45.67572, 4.846727

Recipient of the Report SDMIS, Maj. Guy CATTIN

Type of Mission ☒ On Scene ☒ Samples delivered to Lab ☐

Situation on arrival

Description of situation,
Responding intervention teams from IT, RO and DE have been asked to assess the situation in Total Refinery after

- a column collapse in site of the centrale utilities (U51-U66) with the release of benzene, toluene and xylene (ca. 20 m³ each)
- a fire in the butadiene plant with affected tanks of ca. 50 m³ acetonitrile
- a possible contamination of the water treatment plant of the site due to an overload.

CBRNET DE ATF has been assigned to the water treatment facility. The task is to determine whether the water disposal from the site pollutes the Rhone river or no danger is present.

Union Civil Protection Mechanism

Storm response LYON

Daily Report No. _1_

Responsible Person(s):
Hauke Speth
(Team Leader CBRNET GER ATF)

Phone: +49 160 7428294

Fax:

Mobile:

E-mail:
cbrndet-ger-atf@mail.idf.nrw.de

The status given here was valid at:

Date: 2023-03-01

Time: 03/00 (local) – 02/00 (UTC)

1. SITUATION UPDATE

General situation as known from ERCC briefing.
The Total Refinery site has turned out to be an operational priority as a column has collapsed in the aftermath of the storm and a fire has damaged a tank storage facility. As a consequence, the wastewater treatment system was overloaded and pollutants enter the Rhone river. LEMA fears that the neighbouring surroundings might be threatened by evaporating substances.

2. Coordination with Local authorities

High-level LEMA briefing with the commanding fire chief of the department has taken place at 133028FEB2023. Each EU module will permanently get a local liaison officer from the fire brigade assigned.

3. MAIN ACHIEVEMENTS OF THE TEAM (for joint reporting present joint results and actions)

Main Activities

- Module has arrived at the RDC at 281002FEB2023.

Page 1 of 2



Toward a «Europe Team» Approach

Where we would like to get...

INSARAG GUIDELINES USAR FORMS FROM FRANCE, POLAND, INDONESIA, SWEDEN EARTHQUAKE IN TURKEY, FEBRUARY 2023

USAR TEAM FACT SHEET									
Team details to be uploaded in the VO before departure and given to RDC/UCC on arrival.									
A0. Team ID	FRA02								
A1. Team name	FRA02								
A2. Number of persons	73		A3. Number of dogs		4				
A4. Type of team responding	Heavy	x	Medium		Light		Other		
A5. INSARAG Classification	Yes	x	No						
Responding elements:									
A6. Technical Search	Yes	x	No						
A7. Canine Search	Yes	x	No						
A8. Rescue	Yes	x	No						
A9. Medical	Yes	x	No						
A10. Hazmat Detection	Yes	x	No						
A11. Structural Engineers	Yes	x	No		Number	3			
A12. OSOCC Support	Yes	x	No						
A13. RDC/UC Support	Yes	x	No						
A14. Other capabilities									
Expected arrival information:									
A15. Expected Arrival Date	07/02/2023								
A16. Expected Arrival Time	11:40:00								
A17. Point of Arrival	ADANA - Incirlik air base				A18. Aircraft Type A330 / A400M				
Support Requirements: Do you need assistance finding the following:									
Water	Yes		No	x	10 days				
Food	Yes		No	x	10 days				
Field Contact					Home Contact				
C1. Name	COL NICOT		C5. Name	COGIC					
C2. Mobile	33612611019		C6. Mobile	33145644646					
C3. Satellite			C7. Satellite						
C4. Email	fra02.ca@gmail.com		C8. Email	cogic-centretrans@interieur.gouv.fr					
Base of Operations:									
C9. Address (if known)	Hatay - Antioche								
C10. Radio Frequency									
C11. GPS Coordinates (if known)	36°08'24.2"N 36°07'37.3"E								
Completed by: Name	JG		Title/position	LO					

USAR TEAM FACT SHEET									
Team details to be uploaded in the VO before departure and given to RDC/UCC on arrival.									
A0. Team ID	POL01								
A1. Team name	HUSAR Poland								
A2. Number of persons	76		A3. Number of dogs		8				
A4. Type of team responding	Heavy	X	Medium		Light		Other		
A5. INSARAG Classification	Yes	X	No						
Responding elements:									
A6. Technical Search	Yes	X	No						
A7. Canine Search	Yes	X	No						
A8. Rescue	Yes	X	No						
A9. Medical	Yes	X	No						
A10. Hazmat Detection	Yes		No	X					
A11. Structural Engineers	Yes	X	No		Number	4			
A12. OSOCC Support	Yes	X	No						
A13. RDC/UC Support	Yes	X	No						
A14. Other capabilities									
Expected arrival information:									
A15. Expected Arrival Date	06/02/2023								
A16. Expected Arrival Time	23:02								
A17. Point of Arrival	Gazintep				A18. Aircraft Type LO7273				
Support Requirements: Do you need assistance finding the following:									
Water	Yes		No	X	5 days/amount				
Food	Yes		No	X	5 days/amount				
Field Contact					Home Contact				
C1. Name	Lt. Col. Grzegorz Borowiec		C5. Name	State Fire Service National Headquarters					
C2. Mobile	+48 511438510		C6. Mobile	+48 477223511					
C3. Satellite	NA		C7. Satellite	NA					
C4. Email	gborowiec@ka.siraz.gov.pl		C8. Email	ckkr@kagosp.gov.pl					
Base of Operations:									
C9. Address (if known)	Besni Stadium								
C10. Radio Frequency	149								
C11. GPS Coordinates (if known)									
Completed by	MAJ Aleksander Mirowski		Title/position	Recon Leader					

USAR TEAM FACT SHEET									
Team details to be uploaded in the VO before departure and given to RDC/UCC on arrival.									
A0. Team ID	INA 01								
A1. Team name	INASAR								
A2. Number of persons	47		A3. Number of dogs		2				
A4. Type of team responding	Heavy		Medium	X	Light		Other		
A5. INSARAG Classification	Yes	X	No						
Responding elements:									
A6. Technical Search	Yes	X	No						
A7. Canine Search	Yes	X	No						
A8. Rescue	Yes	X	No						
A9. Medical	Yes	X	No						
A10. Hazmat Detection	Yes	X	No						
A11. Structural Engineers	Yes	X	No		Number	1			
A12. OSOCC Support	Yes		No	X					
A13. RDC/UC Support	Yes	X	No						
A14. Other capabilities									
Expected arrival information:									
A15. Expected Arrival Date	09/02/2023								
A16. Expected Arrival Time	09:00								
A17. Point of Arrival	Halim Perdanakusuma International Airport				A18. Aircraft Type 1x C-130 Boeing 737 & 1x				
Support Requirements: Do you need assistance finding the following:									
Water	Yes	X	No		7 days				
Food	Yes		No	X	days/amount				
Field Contact					Home Contact				
C1. Name	Yopi Haryadi		C5. Name	Moh. Barokna Haulah					
C2. Mobile	+628159791077		C6. Mobile	+6282110284198					
C3. Satellite			C7. Satellite						
C4. Email	yopiharyadi@yahoo.com		C8. Email	barokna_id@yahoo.com					
Base of Operations:									
C9. Address (if known)									
C10. Radio Frequency									
C11. GPS Coordinates (if known)									
Completed by: Name	Hario Adi		Title/position	Planning Officer					

USAR TEAM FACT SHEET									
Team details to be uploaded in the VO before departure and given to RDC/UCC on arrival.									
A0. Team ID	SWEDEN USAR TEAM								
A1. Team name	SWEDEN USAR TEAM								
A2. Number of persons	46		A3. Number of dogs		3				
A4. Type of team responding	Heavy		Medium		Light	X	Other		
A5. INSARAG Classification	Yes		No	X					
Responding elements:									
A6. Technical Search	Yes	X	No						
A7. Canine Search	Yes	X	No						
A8. Rescue	Yes	X	No						
A9. Medical	Yes	X	No						
A10. Hazmat Detection	Yes		No	X					
A11. Structural Engineers	Yes		No	X	Number				
A12. OSOCC Support	Yes		No	X					
A13. RDC/UC Support	Yes		No	X					
A14. Other capabilities	FORWARD RESCUE/RECON TEAM, MOBILE MEDICAL TEAM								
Expected arrival information:									
A15. Expected Arrival Date	09/02/2023								
A16. Expected Arrival Time	09:00								
A17. Point of Arrival	KATARMANLIK				A18. Aircraft Type C-17				
Support Requirements: Do you need assistance finding the following:									
Water	Yes	X	No		days/amount				
Food	Yes		No	X	500 l/day days/amount				
Field Contact					Home Contact				
C1. Name	ROGER VALBERG		C5. Name	Lina Forss Carlsson					
C2. Mobile	+46 722 19 65 82		C6. Mobile	+46 7052 84 60					
C3. Satellite	+88216 44 99 0005		C7. Satellite						
C4. Email	rvalb@msb.se		C8. Email	lforss@msb.se					
Base of Operations:									
C9. Address (if known)									
C10. Radio Frequency									
C11. GPS Coordinates (if known)									
Completed by: Name	DAVID NORLIN		Title/position	LO					

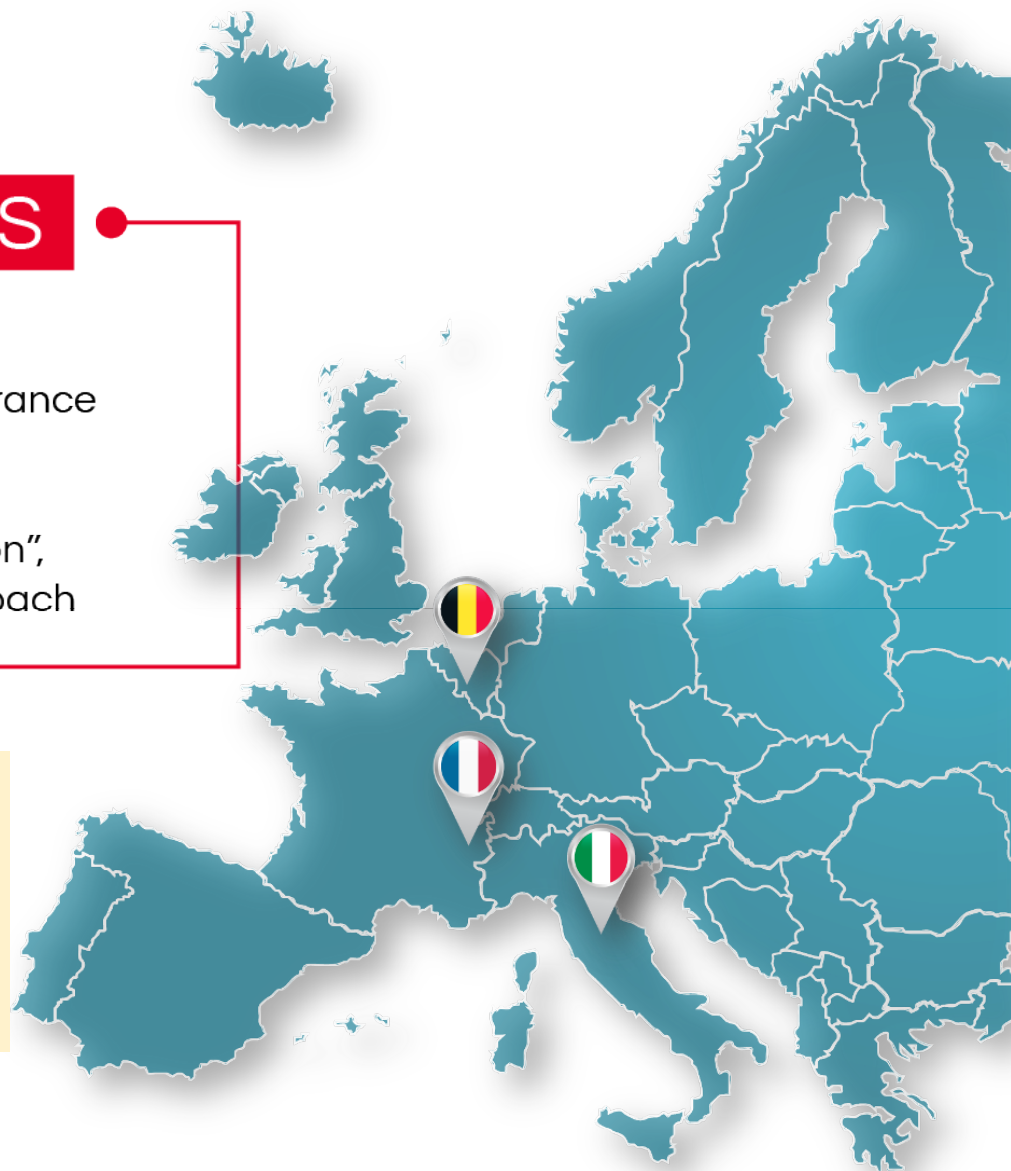
* per.hallenborg@mission.msb.se
* vakthavande.nc@msb.se

Our Aim

OPERATIONAL OBJECTIVES

- Contributing to enhance mutual cooperation for border general interventions between Italy and France
- Improving the quality of CBRN operations, enhancing the coordination to take the “right decision”, and interoperability ensuring a “Team Europe” approach

The project stems from end-users for end-users to respond to real operational needs



FOCUS ON ACTUAL ACTIVITY

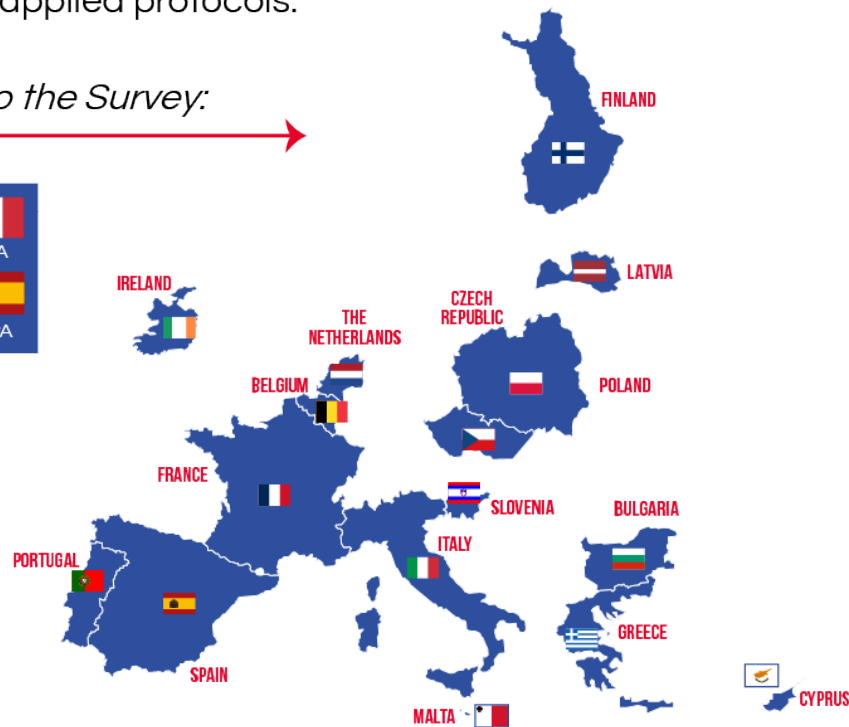
CBRN: ANALYSIS OF THE STATE OF THE ART THROUGH A SURVEY

- The first step toward the definition of standardised forms, consisted in an analysis of the actual state-of-the-art within the European Union Member States with CBRN modules (certified or not yet certified) in terms of applied protocols.

- *The following 16 countries responded to the Survey:*



- The survey structure was built following the “Life cycle of incident”, that is the following:
 - Preparedness
 - Response
 - Recovery
 - Mitigation



Co-funded by
the European Union

OUR INITIAL APPROACH. WHERE WE STARTED FROM:

Project objectives

- Contributing to enhance mutual cooperation for border general interventions between Italy
- Improving the quality of CBRN operations, enhancing the coordination to take the "right"



Bilateral Agreements

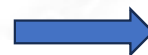
Case studies with transborder events

EU directives or International Agreements

SOPs from Certified CBRN Teams

Survey developed and conducted by ICI

Ideas to design Guidelines



To test in a scenario

OUR INITIAL APPROACH. WHERE WE STARTED FROM (more specifically):

- **Bilateral Agreements;**
- **Case studies developed over the years by other organizations/entities who have examined transborder issues and procedures;**
- **EU directives or International Agreements where transborder effects are mentioned (Seveso III, EURATOM, ADR, RID etc..);**
- **SOPs (Standard Operating Procedures) e.g. from the IT CBRN DET module certified last march 2023 and indications from SDIS 73;**
- **Survey developed and conducted by ICI (16 EU Countries analyzed).**
- **A scenario-oriented structure was developed and a scheme evaluated.**

...giving life to...

OPERATING GUIDELINES To improve Coordination and Cooperation

2nd draft OG 20241110 – 64 pages

**OPERATING GUIDELINES
TO IMPROVE COORDINATION AND COOPERATION**

2nd Draft Operating Guidelines 20241110.docx

How the document is structured...

OPERATING GUIDELINES To improve Coordination and Cooperation

- **Index of the document** (page 2 of 64);
- **Section 0** (from page 3 to 9 of 64);
- **Section 1** – ACTORS (from page 10 to 20 of 64);
- **Section 2** – TEAM COMPOSITION, EQUIPMENT AND TOOLS (from page 21 to 31);
- **Section 3** – OPERATIONAL PHASES (from page 32 to 47 of 64);
- **Section 4** – Identified CBRN FORMS (page 48 of 64);
- **ANNEXES** to Section 1; Section 2.



...briefly

SECTION 0

- 0.1 Overcome Project;
- 0.2 OG to improve coordination and cooperation;
- 0.3 S.O.F.I.A.
- 0.4 Prometheus CBRN
- 0.5 Interconnection between SOFIA and Prometheus
- 0.6 Terms and definitions
- 0.7 Acronyms

Here presented: aim of the project; SOFIA virtual operating room, alerting system and dispatcher; Prometheus as a management system when a CBRN event happens; link between SOFIA and Prometheus.



Section 0

0.1 OVERC.O.M.E. Project

OVERC.O.M.E. project has been funded by the European Union Mechanism of Civil F under the Call UCPM – 2022 – PP . It has been implemented by a consortium of Italian users: the Italian National Fire and Rescue Service (CNVVF), the French Departmental Service of Savoie (SDIS73), together with the International CBRNE Institute (ICI) coordinator of the project is the CNVVF. One of the objectives of the project is to improve CBRN operations, enhancing the coordination to take the "right decision" and interoperability toward a "Team Europe" approach as well as to improve the cooperation for general joint intervention at the border.

Thus, OVERC.O.M.E. intends to improve current tools, covering the lack of procedural operational forms in CBRN, to harmonise the type of data useful to the coordination of cross-border operations, to facilitate the flow of information to respond to the operational needs, especially when a country is involved. The project takes into consideration the standard international model for USAR operations (INSARAG Guidelines 2020) which is intended to be the level of standardisation in CBRN scope, applying a methodology that comes from USAR operational model. The project will test the CBRN forms and the CBRN procedures during two exercises to enhance mutual cooperation in a scenario simulating an intervention at the border between France and Italy and will enhance the already available data management system in USAR operations, "Prometheus" that could also be used by the teams during a CBRN emergency.

In the frame of protocols of cross border cooperation (CBC) already existing between the Interior of France and Italy signed in 2007, OVERC.O.M.E. is also aimed at enhancing a virtual operating room between Turin (Italy) and Chambéry (France) to improve daily operations at the border and as a model for other borders' joint action. Thus, S.O.F.I.A. which stands for Operational I Alpine Arch (Sala Operativa Francia Italia Arco Alpino/Salle Opérationnelle France) developed in the frame of OVERC.O.M.E. to facilitate the coordination of cross-border operations in terms of: a) correct classification of an event; b) unambiguous address; c) standard equipment and resources; d) translation on real time of additional information.

At the end of the project Prometheus will be therefore enhanced for CBRN (for full coordination) and for general intervention in the frame of S.O.F.I.A. (for the alerting system).

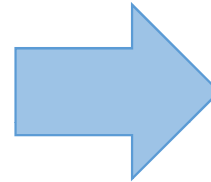
SECTION 1

Actors

Four parts presented:

- **Part A: Actors in a CBRN event during a transborder emergency;**
- **Part B: Role of the LO and the Command Post;**
- **Part C: Head of the reinforcement team and Head of the Sector during a transborder emergency;**
- **Part D: Actors interacting with SOFIA, Prometheus CBRN and both.**

Here presented: List of actors and what they do in the 4 phases (box to the right!); Role of the Liaison officer, specific capabilities and functions; Command Post role; How the two Countries interact also using SOFIA and Prometheus.



SECTION 1 – ACTORS

The aim of this section is to identify the actors that can be involved during a transborder emergency, followed by their description, functions and competences.

This section is divided into four parts:

A – describing all the possible actors involved during a CBRN event during a transborder emergency;

B - specific terms of references for the International Liaison Officer and the interaction with the Command Post;

C - description of the head of reinforcement team and head of the sector during a transborder emergency;

D – brief description of the actors involved in CBRN and both.

PREPARADNESS

(Planning, Training, Awareness, Resource's inventory and facilities inventory)

RESPONSE

(Warning, Protect, Analyze, Mitigation, Rescue)

RECOVERY (Damage and impact assessment, Site-restoration plan, Restoration to normality)

SECTION 2

Team Composition, Equipment And Tools

In this section it is presented a minimum level for CBRN Teams in areas like:

- TRAINING
- PREPAREDNESS
- RESPONSE
- SAMPLING
- MODELING

Here presented: Tasks within the team; activities in "peace time"; Response with actions to perform (e.g. survey, detection, decon...); team composition; software



SECTION 2 – TEAM COMPOSITION, EQUIPMENT AND TOOLS

The aim of this section is to identify the minimum level necessary for CBRN teams. Similar teams, similar training, similar device can produce a higher response level in case of war emergency.

A possible distribution of tasks within a team for a cross-border emergency intervention is indicated in the following diagram:

MANAGEMENT



OPERATIONS



SECTION 3

Operational Phases

In this section, we find phases:

- PREPAREDNESS
- RESPONSE
- RECOVERY
- MITIGATION/LESSONS LEARNED

in the framework of a cross-border emergency

Here presented the essential activities to perform: zoning concept; activities in “peace time”; CBRN Sampling and Detection with proper equipment; CBRN Decon for people and responders; the document is provided with pictures and is vital to help CBRN forms understanding.

For instance, also modeling and prediction of chem/rad dispersion are presented.



SECTION 3 - OPERATIONAL PHASES

With reference to this section and starting from possible scenarios, aspects and phase trans- border emergencies are as follows:

- Preparedness.
- Response;
- Recovery;
- Mitigation/Lessons Learned.

PREPAREDNESS

This phase is the time frame of operational stages between the end of a rescue mission the start of a new one.

In this phase, the CBRN personnel undertake all the actions aimed to ensure the preparation and readiness for deployment or get dispatched in case of an emergency. The country informs the neighboring control room about the resources that are available in case of a border event. Moreover, must be performed a communication check about all the involved in case of activation.

Within this framework, it is important to train personnel, to practice and get familiar with procedures, as well as operating methods for cross-border working teams with experience (e.g. detection). This way, it is vital to arrange exercises with teams at the borders trying to simulate a day, coordination and cooperation.

For instance, in a preparedness stage it would be necessary to foresee a table-top or a simulation with the neighboring Country making it possible to play it on different levels (operation and strategic).

RESPONSE

Recognizing that a CBRN incident has or may occur is critical. The affected Country

SECTION 4

Identified CBRN FORMS

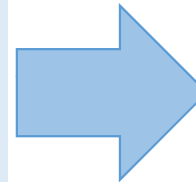
This part will be discussed in the following session.

Forms are embedded in Prometheus Portal and can display data (after filling them out) about:

- Fact sheet;
- Sampling;
- Detection;
- Decontamination



SECTION 4—IDENTIFIED CBRN FORMS
The list will be included in the final version



ANNEXES

Attachments to the main document are presented in order to provide references or examples for a better understanding of the OG

Annexes are referred to Section 1 and Section 2 providing references about: France Emergency Response; CP role when more teams are interacting under also several level of Command.

In section 2, CBRN pieces of equipment are presented providing a list of them and specific features.

ANNEXES

ANNEX 1 SECTION 1 - PART C

France emergency response

This annex represents, as a useful reference, the French emergency response system command in case of emergency situations.

The first incident commander is the head of the first engine.



The second level is the head of several engines. He is in contact with the head of each vehicle and the engine crew.



The third level is the head of several groups of vehicles. He is in contact with the head of each group and the head of each vehicle.

He is, often, helped by a small command post, managing collection and synthesis of information.



"colonne" chief

The fourth level is the heads described previously. He is helped by an important command post.

The logic behind

OG structure

SECTION 1 ACTORS that can be involved during a trans border emergency: description, functions and competences	SECTION 2 EQUIPMENT and TOOLS that can be shared during a trans border emergency (description, possible use and limits)	SECTION 3 OPERATIONAL PHASES Starting from possible scenarios, which aspects have to be considered during trans border emergencies	SECTION 4 Identified CBRN Forms
		PREPARADNESS (Planning, Training, Awareness, Resource's inventory and facilities inventory)	
		RESPONSE (Warning, Protect, Analyze, Mitigate, Rescue)	
		RECOVERY (Damage and impact assessment, Site-restoration plans, Restoration to normality)	
		MITIGATION AND LESSONS LEARNED (Lessons learned, Risk assessment)	

OUR FINAL GOAL

EXPECTED MAIN OUTPUTS

to share with international actors interested to build up, in their own countries:

- Procedures for CBRN with standardised forms;
- Prometheus – Data Management System, actually ready for USAR operations, will be available and ready to use for CBRN operations

THANK YOU!



OVERC.O.M.E.

Cross-border cOoperation
in Managing Emergency

ph: +39 050 941942
e-mail: infovercome@vigilifuoco.it
Comando VV.F., Viale delle Piagge, 1 - 56124 Pisa, Italy.



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...Differences between Cooperation and coordination..

Office for the Coordination
of Humanitarian Affairs

**UNITED NATIONS
DISASTER ASSESSMENT
AND COORDINATION**

**UNDAC
Field Handbook**

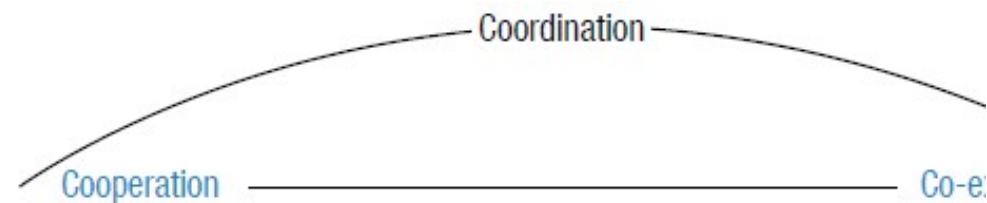


Figure N.6 CMCoord operational spectrum

The type of relationship established with military entities varies depending on the nature of the military mission. It may be appropriate to co-locate, or it may be from a humanitarian stance to have direct contact. For example, it may be appropriate to co-locate in a benign environment where a stable state government exists and there is little threat to security, but it is likely to be inappropriate where a conflict situation exists. The visual below shows possible civil-military liaison arrangements.

