

Understanding CBRN-defence in the Royal Norwegian Navy

2024 - 10 - 22

NORWEGIAN ARMED FORCES

CBRNM-DEFENCE MANUAL

CBRN-ALARM: "Norwegian Navy"

Abbreviations

CBRNM - CBRN & Maritime environmental protection CCA - Contamination control area BPE - Individual protective equipment SA - Situational awareness

ONE CONTINUOUS TONE

CBRNM THREAT LEVEL **CBRN WEAPONS OR DEVICES CBRN TIM / ENVIRONMENTAL PROTECTION** A state or non-state actor has been identified who may posses either the ndustrial infrastructure and security levels are robust. Environmental protect capability or intention of targeting NATO forces or individuals. Although it is readiness in accordance with own activity. Comply with environmental possible, there are no other indications of use regulations/restrictions. A state or non-state actor has been identified as possessing both the capabilit There is an increasing risk of TIM release due to a decay of industrial and intention of targeting NATO forces or individuals. infrastructure and/or a degradation of the security of industrial infrastructure A state or non-state actor has been identified as possessing both the capability Release of TIM may occur with little additional warning due to weakness of and intention of targeting NATO forces or individuals, and will likely attempt to do industrial infrastructure and/or insufficient security of industrial infrastructure so in the near term. A state or non-state actor has been identified as possessing both the capabilit There is an immediate risk of TIM release, without warning, due to damage to and intention of targeting NATO forces or individuals within a specific industrial infrastructure and/or a lack of security of industrial infrastructure. time frame and/or against a specific target.

IMPLEMENTION OF CBRNM-DEFENCE MEASURES

DETECTION, IDENTIFICATION &	INFORMATION MANAGEMENT	PHYSICAL PROTECTION	HAZARD MANAGEMENT	MEDICAL MEASURES
MONITORING (DIM)	(IM)	(PP)	(HM)	(MED)
Initiate CBRNM-	1 Commander SA I	Check personal/unit	Evaluate CBRNM-defence	1 Medical risk assessment
observation functions	1 CBRNM risk assessment	CBRNM equipment	ORG and capabilities	Prepare hygiene measures
Control and activate	Obtain weather data and	2 Consider carrying IPE	Prepare waste	2 Prepare first aid area
CBRN-detectors	environmental restrictions	Consider material and	management plan	2 Prepare medic team
2 Prepare survey-team	Prepare alarm- and	equipment protection	2 Prepare pre-wet system	2 Initiate hygiene measures
Intensify CBRNM-	warning systems	3 Implement CBRN-ventilation	2 Prepare CCA	Implement plan for
observation functions	2 Commander SA II	3 Consider use of IPE	Establish plan for entry/-	food and water supply
Deploy and use	Check alternative COMs	3 Close down to ZULU	exit procedures	3 Prepare isolation facilities
mobile detectors	and CBRN alarm systems	3 Consider EMP protection	3 Consider route planning	Consider distribution/use
Implement periodic	Prepare warning and	Implement material and	CBRN agent exposure	of prophylaxis/antidote
control	reporting functions	 equipment protection 	control	3 Medic team ready
3 Survey-team ready	3 Commander SA III	3 Consider using shelter	3 CCA ready	Establish treatment
Implement continuous	Implement warning and	Wear IPE outside COLPRO	Consider use of pre-wet	and evacuation plan
control	reporting functions	Consider ventilation shut-		
	Commander SA IV	down law threat		

CBRNM RESPONSIBILITES

TASKS:	COMMAND HUDDLE:	ocer Se	CIC/OPS ROOM:	TASKS:
Commander SA I-IV CBRNM- evaluation and risk assessment Consider CBRNM- defence measures Coordinate CBRNM sentries/observers Route planning	- Commanding officer - Second in command - CBRNM officer - ORO/N3 - Medical officer	CO	- CIC personnel - COMMS personnel	CBRNM information management Prepare CBRNM- defence COMs Obtain weather data and env. restrictions Hazard prediction Send/receive CBRN- messages

FUNCTIONS AT INCREASED CBRNM THREAT LEVEL









Introduction

- Strategies and considerations for implementing CBRN-defence within the navy
- Toxic Fjord: A Norwegian maritime CBRN-defence exercise
- Tools for enhancing CBRN-defence capabilities

CBRN THREAT LEVEL				
CBRN WEAPONS OR DEVICES	Y	CBRN TIM / ENVIRONMENTAL PROTECTION		
A state or non-state actor has been identified who may posses either the capability or intention of targeting NATO forces or individuals. Although it is possible, there are no other indications of use.	1 LOW	Industrial infrastructure and security levels are robust. Environmental protection readiness in accordance with own activity. Comply with environmental regulations/restrictions.		
A state or non-state actor has been identified as possessing both the capability and intention of targeting NATO forces or individuals.	2 MED	There is an increasing risk of TIM release due to a decay of industrial infrastructure and/or a degradation of the security of industrial infrastructure.		
A state or non-state actor has been identified as possessing both the capability and intention of targeting NATO forces or individuals, and will likely attempt to do so in the near term.	3 SIGN	Release of TIM may occur with little additional warning due to weakness of industrial infrastructure and/or insufficient security of industrial infrastructure.		
A state or non-state actor has been identified as possessing both the capability and intention of targeting NATO forces or individuals within a specific time frame and/or against a specific target.	4 HIGH	There is an immediate risk of TIM release, without warning, due to damage to industrial infrastructure and/or a lack of security of industrial infrastructure.		

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Intensify CBRNM-	warning systems	3 Implement CBRN-ventilation	2 Prepare CCA	Implement plan for
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Deploy and use	Check alternative COMs	3 Close down to ZULU	exit procedures	3 Prepare isolation facilities
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Implement continuous	Implement warning and	Wear IPE outside COLPRO	4 Consider use of pre-wet	and evacuation plan
control	reporting functions	Consider ventilation shut-	H	H
	4 Commander SA IV	down iaw threat		





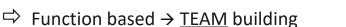


Strategies and considerations for implementing CBRN-defence within the Navy

- Responsible for CBRN-defence and environmental protection in the NOR Navy
- Tasks:
 - Education, support, advice and control of NOR Navy units
 - Develop and publish documentation
 - Advisor in preparedness and crisis management
 - Advisor on materiel procurement
 - Support and cooperation with civilian authorities

NOR NAVY CBRNM CONCEPT (SINCE 2010)

- THREAT SCENARIO
- NATO doctrine AJP, ATP
- National instructions
- National instructions





Maritime Environmental Protection

Instructions



Handbook



Manual



EFFECT

Scenario no 1: INDUSTRY FACILITY AT SHORE Scenario no 2: CBRN/TIM AT SEA Scenario no 3: TERRORIST ATTACK IN HARBOR / LITTORAL WATERS Scenario no 4: CRISIS /WAR









Toxic Fjord: A Norwegian maritime CBRN-defence exercise

1. Aim to train participants in all aspect of MAR CBRN-defence

- Usage of the <u>five enabling NATO components</u> of CBRN-defence in handling CBRN-incidents
- Establish interoperability
- The whole CBRN defence organization rehearsed during the exercise

2. Participants get knowledge on how to organize and execute CBRN events using the CBRN Scenario Data Base (SDB)

- Feedback/adjustments on existing events in the SDB
- Play and test new events in the SDB
- Train/inform participants in use of SDB







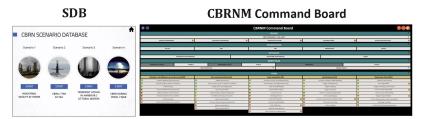


TOXIC FJORD 2024





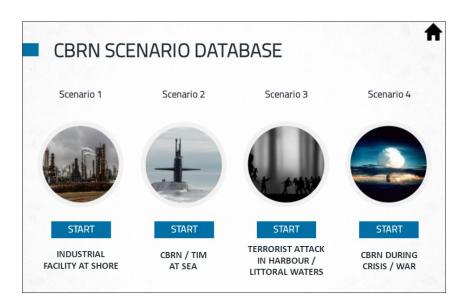
Tools for enhancing CBRN-defence capabilities



Basic CBRN- defence ADL course UNIT CBRN- defence ADL course



- CBRN Scenario Data Base (SDB)
- CBRN Command Board
- Advanced Distance Learning (ADL)
- Courses via TEAMS/SKYPE
- Camtasia/Articulate (VDO, courses)







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Questions?

2024 - 10 - 22

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Intensify CBRNM- observation functions Deploy and use mobile detectors Implement periodic control Survey-learn ready Implement continuous control	warring systems 2 Commander SA II Check alternative COMs and CBRN altern systems Prepare warning and reporting functions 3 Commander SA III Implement warning and reporting functions 4 Commander SA IV	3 Implement CBRN-ventilation 3 Consider use of IPE 3 Close down to ZULU 3 Consider EMP protection Implement material and equipment protection 3 Consider using shetter I Wear IPE outside COLPRO Consider ventilation shutdown is well wheat	2 Prepare CCA Establish plan for entryf- axit procedures 3 Consider route planning CRRN apent exposure control 3 CCA ready Consider use of pre-wet	Implement plan for 2 food and water supply 3 Prepare isolation facilities 3 Consider distribution/use of prophylaxis/lantidote 3 Medic team ready Establish treatment 3 and evacuation plan

CBRNM RESPONSIBILITES

TASKS:	COMMAND HUDDLE:	ocer Se	CIC/OPS ROOM:	TASKS:
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FUNCTIONS AT INCREASED CBRNM THREAT LEVEL

	UNCTIONS A	INCREASI	ED CBKMM
DAMAGE CONTROL CENTRAL (HQ1)	CCA Responsible; Leader CCA		<u>SUF</u> Responsibl
Responsible: CBRNM officer			
Staffed partly on 3 SIGN Staffed 100% on 4 HØY	Prepared on Ready on	2 MID 3 SIGN	Prepared or Ready on
REPORT TO COMMAND	REPORT TO DCC		REP
TASKS:	TASKS:		
- Give CBRNM-defence instructions - Coordinate survey teams - Coordinate survey teams - Coordinate CCA - Coordinate implementation of CBRNM-defence measures - CBRNM-defence advisor	procedures	- Implement entry/exit	

SURVEY TEAM Donsible: Leader survey- team		MEDIC TEAM Responsible: Medical officer		
ly on	3 SIGN	Ready on	3 SIGN	
REPORT TO DCC		REPORT TO COMMAND		
TASKS:		TAS	TASKS:	
pare survey/decon equip.		- Prepare first aid	- Prepare first aid area	
survey missions		and MED equipment		
lement material and		- Initiate hygiene measures		
ipment protection		- Prepare isolatio	- Prepare isolation facilities	
duct survey missions		- Assist in CCA if	necessary	
duct decon missions		- Conduct preven	- Conduct preventive	