Mission Orientated Protective Posture (MOPP)

& CBR defense bill Lesson topic 4.5



Enabling Objectives

- **#** Describe the different levels of protection associated with Mission Oriented Protective Posture(MOPP)
- ****State** the purpose of the Chemical, Biological, and Radiological Defense Bill
- **# Identify** personnel responsibilities for Chemical, Biological, and Radiological Defense

MOPP

#Purpose

- Enhance the survivability of ship's crew

MOPP

- #Provides for incremental preparations to defend against CBR attacks
- #Provides incremental application of increased protection to counter minimum to maximum levels of CBR environments
- #Implementation of MOPP levels must be the result of threat/risk assessment

#Commanding Officer

- Establishes Maximum Permissible Exposure
- ☑Direct & coordinate the training of ship's crew & embarked personnel
- Designate the appropriate MOPP level

****Executive Officer**

- ☑Direct & coordinate the training of ship's crew
- Supervise accomplishment of preparatory measures prior to a CBR attack
- **#Officer of the Deck**

 - Record avoidance & countermeasures activities

#Operations Officer

- Principal advisor to the CO regarding potential or actual CBR hazards
- Keep DCA informed

- #Embarked aviation Units
 - Appoint CBR-D officer
 - Assign embarked personnel to decon teams
 - △Air-specific decon training

Embarked units should have their own CBR personnel protective clothing & aircraft decon supplies

#Engineering Officer

- Instruct engineering personnel in the use of individual protective equipment
- ☑Direct decontamination & repair of engineering spaces

- **#Damage Control Assistant**
 - Responsible for CBR-D bill
 - Advise the CO on CBR-D

 - CBR-D coordination with embarked units
- **#Department Heads**
 - Assist DCA on maintaining CBR-D readiness
 - Coordinate assignments of personnel
 - Training of all personnel in department

#Division Officer

- Principal assistants to DCA in division
- Appoint divisional DCPO for CBR-D training
- Ensure good hygiene & sanitation

Chemical, Biological and Radiological Defense Bill

- #Purpose, provide guidance in defense measures prior to a CBR attack
- #Methods to be used in minimizing damage & personnel casualties
- **#Contains preparatory & active measures**

Preparatory measures

- **#Proper inoculations**
- **#Cleanliness of the ship**
- **#Self/buddy aid procedures**
- **#Pre-attack activation of CMWDS**
- ******Material condition of readiness
- #Minimizing exposure



Active measures

- #Immediately following a CBR attack

 - Activation of CMWDS continuously
 - Decontamination of personnel & equipment
 - Prompt & accurate detection & prediction of contaminated areas

Risk assessment

- Risk is the assessed difference between the threat level & activation of appropriate levels of shipboard countermeasures
- Risk analysis begins with intelligence information which describes the threat

Intelligence information

- **#CBR** warfare capability in area
- **#**Assessment of the political will
- **#**Strike ranges of known delivery systems
- #Threat axis & potential attack patterns
- **#**Estimated time of arrival

#Level 1 suspected

- Possession of CBR capabilities by an adversary with delivery systems in the operational area constitutes a suspected threat

- **#Level 2 possible**
 - △Assessed political will of an adversary to utilize CBR warfare increases the threat



****Level 3 probable**

- Statements of intent to employ CBR warfare
- Changes to political or military posture of an adversary possessing CBR capabilities
- Use of CBR warfare within operational area

%Level 4 imminent

- Confirmation of increased activity involving delivery systems
- Recognized platform attack patterns
- Electronic or visual indication of employment

Risk management & implementation of MOPP

- #Decision to initiate/upgrade ship's MOPP begins with the determining threat level
- #Increase on threat level doesn't justify immediate implementation of all countermeasures
- ****Next step is determine time which MOPP** countermeasures should be implemented

Risk management & implementation of MOPP

- #Implementing countermeasures to early will degrade the crew's performance
- #Immediately following attack an assessment of ship's involvement in the CBR hazard is required
- ****Assessment will determine which**countermeasures should remain in effect

MOPP level 1

- **#MOPP** level 1 attack suspected
 - Individual protective equipment & medical supply are issued to shipboard personnel
 - maintained at respective battle stations
 - Protective masks issued & fitted



Attack suspected

- ****Chemical protection**

 - **△**ACPG suit
 - Personnel decon kit, M-291
 - Operational inspection of detection equipment & monitoring systems
 - □ Threat is assumed as "worst case scenario"

Attack suspected

- **#Biological protection**
 - Protective measures same as chemical
- ****Radiological protection**
 - Mask only
 - Operational inspection of installed detection equipment monitoring systems

Attack suspected

#Other Actions

- Set Material condition YOKE
- Set Readiness Condition III
- Training
- Review survival standards for CBR-D environments
- Assign personnel to CBR defense teams

MOPP level 2

#Attack possible

- Protective mask worn on person
- Pre-position CBR-D equipment
- Operationally test CMWDS
- Operationally test alarms
- Radiological only, issue dosimeters
- Training

Attack possible

#Other Actions

- Designate primary/secondary CCA & decontamination stations
- Set Material Condition ZEBRA (modified)
- Conduct threat brief on enemy capabilities
- Review shipboard procedures for handling of contaminated casualties

MOPP level 3

- ****Attack probable**

 - Activate CMWDS intermittently
 - ✓ Weather deck activities require wet weather gear
 - △ Activate Collective Protection System (CPS)

Attack probable

- **#Chemical protection**
 - Don ACPG with hood down
 - ☑ Initiate NAPP
 - M-291 stowed in mask carrier, medical supplies are stored in jumper cargo pocket

Attack probable

- **#Biological protection**
 - Same as chemical, medical supplies & NAPP
- ****Radiological protection**
 - Don battle

 - Ready shelter

Attack probable

- **#Other Actions**
 - **GQ**
 - Set Material Condition ZEBRA
 - △ Activate CCA/decon stations

MOPP level 4

- **#**Attack imminent

 - Activate CMWDS continuously
 - Chemical/biological, secure jumper hood over head & around mask
 - Don protective glove set
- ****Radiological**
 - Don battle dress
 - Monitor radiation detection equipment

Attack imminent

- **#Other Actions**

 - Mandatory water drinking regimen

 - Ready & deep shelter



Review and Summary

- **#Purpose of MOPP levels**
- ****** Responsibility of personnel
- **#**Risk assessment
- Risk management & implementation of MOPP levels



Review and Summary

- **#CBR Defense Bill**
- ****MOPP levels**
 - MOPP 1
 - MOPP 2
 - MOPP 3
 - MOPP 4