



DEMILITARIZATION
OF
ANTIPERSONNEL
MINES

AIM

AIM OF THIS PRESENTATION IS TO GIVE A FIGURE ABOUT THE CONCEPT HOW THE HELLENIC ARMY WILL FACE THE PROBLEM OF DEMILITARIZATION OF ANTIPERSONNEL MINES.

THIS PRESENTATION WILL COVER THE TOPICS AS FOLLOW

- **SITUATION.**
- **DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS.**
- **DEMILITARIZATION OF A/P MINES IN STOCK.**
- **TIMEFRAME.**
- **ECONOMICAL DATA.**
- **CONCLUSION.**

SITUATION

- THERE ARE TWO KINDS OF STOCKS OF A/P MINES:
 - A/P MINES PLACED ON MINEFIELDS
 - A/P MINES IN STOCK
- THE TYPES OF A/P MINES WHICH ARE ON HAND OF HELLENIC ARMY (MINEFIELDS AND IN STOCK) ARE:
 - A/P MINES M2
 - A/P MINES M14 (ONLY IN STOCK)
 - A/P MINES M16
 - A/P MINES DM31 (ONLY IN STOCK)

SITUATION

- THESE TWO KINDS OF STOCK (MINEFIELD AND IN STOCK) BASED ON THEIR DANGEROUS SITUATIONS ARE CLASSIFIED AS:
 - **A/P MINES ON MINEFIELDS: HIGHLY DANGEROUS**
 - **A/P MINES IN STOCK: SAFE**
- A/P MINES PLACED ON MINEFIELDS ARE CONSIDERED AS HIGHLY DANGEROUS BECAUSE OF BOOBYTRAPED STATUS.
- THESE A/P MINES (PLACED ON MINEFIELDS) AFTER DEMINING BASED ON THEIR STATUS CAN BE CLASSIFIED AS:
 - **BLOWN IN PLACE (B.I.P.)**
 - **PICK UP & CARRY AWAY (P.U.C.A)**

SITUATION

- A/P MINES (PLACED ON MINEFIELDS) CLASSIFIED AS B.I.P. ARE THESE IN WHICH RENDER SAFE PROCEDURE (RSP) IS IMPOSSIBLE TO APPLY.
- A/P MINES (PLACED ON MINEFIELDS) CLASSIFIED AS P.U.C.A. ARE THESE IN WHICH RENDER SAFE PROCEDURES (R.S.P.) WERE DONE SUCCESSFULLY AND THE A/P MINES TURNED TO SAFE STATUS.

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- THESE A/P MINES CAN BE DISPOSED OF ONLY WITH THE METHOD OF OPEN DETONATION (AS EMERGENCY SITUATION).
- THE A/P MINES CLASSIFIED AS B.I.P. ARE DISPOSED OF WITH THE METHOD OF O.D. IN PLACE AS IS.
- A/P MINES OF THIS CLASSIFICATION (B.I.P.) CAN BE DISPOSED OF ONLY WITH HIGH ORDER EXPLOSION (LOW ORDER EXPLOSION IS IMPOSSIBLE TO BE APPLIED BECAUSE OF THE BOUNDING TYPE OF MINES).

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- A/P MINES CLASSIFIED AS B.I.P. ARE MARKED AND WHEN THE DEMINING OPERATION IS ENDED ARE DISPOSED.
- DISPOSAL AFTER ENDING OF DAY'S WORK IT IS NOT WISE BECAUSE FRAGMENTS CAN "POLLUTE" THE MINEFIELD CAUSING DIFFICULTIES IN SEARCHING WITH DETECTORS.
- A/P MINES (PLACED ON MINEFIELDS) CLASSIFIED AS PICK UP & CARRY AWAY (P.U.C.A.) CAN BE REMOVED FROM THE MINEFIELD SINCE THEY ARE IN SAFE STATUS.

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- A/P MINES ARE REMOVED ONE BY ONE BY HAND.
- A DESIGNATED CONCENTRATION AREA IS USED FOR PACKING THE MINES. AS PACKAGE IS USED THE ORIGINAL WOODBOX AND THE ORIGINAL FIBER CONTAINER.
- AFTER SECURING THE PACKED A/P MINES BY HARDBOARD OR OTHER SIMILAR MATERIAL THEY ARE TRANSPORTED TO DESTRUCTION AREA.

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- A PIT IS PREPARED AS A DESTRUCTION SITE. THIS PIT IS BARRICADED. THE DIMENSIONS ARE
LENGTH: 10m
WIDTH: 4m
HEIGHT OF BARRICADES: 4m
- THE A/P MINES FOR DISPOSAL ARE PUT IN A DESIGNATED AREA (EARTH COVERED METAL CONTAINER) IN A SAFETY DISTANCE OF 300m FROM THE DESTRUCTION SITE.

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- A SPECIAL SHELTER (EARTH COVERED METAL CONTAINER) FOR THE PROTECTION OF AUTHORIZED PERSONNEL FOR DISPOSAL OF A/P MINES IS IN A SAFETY DISTANCE OF 300m.
- FOR DISPOSAL A MAXIMUM NUMBER OF FIVE (5) A/P MINES ARE PUTTING IN THE DESTRUCTION SITE.
- THE A/P MINES ARE PUTTING IN SERIAL.

DEMILITARIZATION OF A/P MINES PLACED ON MINEFIELDS

- A QUANTITY OF 300 gr HIGH EXPLOSIVE C-4 PER MINE IS PLACED ON THE BODY OF THEM.
- DETONATING CORD IS USED TO CONNECT THE A/P MINES.
- THE SYSTEM IS INITIATED ELECTRICALLY.

DEMILITARIZATION OF A/P MINES IN STOCK

- THE A/P MINES ARE PACKED IN THE ORIGINAL PACKAGING MATERIAL STORED INSIDE APPROPRIATE MAGAZINES IN ACCORDANCE WITH ARMY REGULATIONS.
- THE A/P MINES ARE CONSIDERED AS IN SAFE STATUS WHEN ARE HANDLED. TRANSPORTED IN ACCORDANCE WITH ARMY REGULATIONS REGARDING AMMUNITION.
- BECAUSE OF THE BIG QUANTITIES OF A/P MINES IN STOCK THE DEMILITARIZATION OF THEM CAN BE ACHIEVED HAVING UNDER CONSIDERATION THE ENVIRONMENTAL PROTECTION.

DEMILITARIZATION OF A/P MINES IN STOCK

- THE ENVIRONMENT IS INFLUENCED (WHEN THE OPEN DETONATING METHOD IS USED) BY EMISSIONS OF THE EXPLOSION (AIR) OR RESIDUE OF THE A/P MINES AFTER EXPLOSION (EARTH).
- THE STOCK OF A/P MINES CAN BE DISPOSED OF ONLY IN A WAY WHICH IS IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION LAW.
- IN NATO STANAG 4518 ARE STANDARDIZED THE METHODS BY WHICH THE DISPOSAL OF A/P MINES CAN BE CONDUCTED IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION LAW..

DEMILITARIZATION OF A/P MINES IN STOCK

- DUE TO IN GREECE THERE IS NO INSTALLATION ABLE TO DISPOSE OF A/P MINES BY USING THE METHODS AS DESCRIBED IN STANAG 4518 EQUIPPED WITH FILTERS TO TRAP THE DANGEROUS GASSES AND TO RECYCLE THE RESIDUAL OF THE DISPOSITION THE ONLY WAY TO ACHIEVE THE DISPOSAL OF THEM IS THE FACTORY OUTSIDE OF GREECE.
- THERE ARE TWO SOLUTIONS:
 - **INTERNATIONAL TENDER BY HELLENIC ARMY.**
 - **DISPOSAL THROUGH NAMSA.**

DEMILITARIZATION OF A/P MINES IN STOCK

- FROM THESE TWO SOLUTIONS “DISPOSAL THROUGH NAMSA” IS CONSIDERED MORE PREFERABLE BECAUSE OF THE NAMSA’S EXPERIENCE ON THE MATTER “DISPOSAL OF AMMUNITION” .

TIMEFRAME

AT THIS TIME THE ESTIMATION OF THE TIME FOR THE DISPOSAL OF THE A/P MINES PER STOCK IS:

- **A/P MINES (LAID ON MINEFIELDS):**
EIGHT (8) YEARS
- **A/P MINES (IN STOCK):**
FOUR (4) YEARS

ECONOMICAL DATA

THE TOTAL AMOUNT OF MONEY WHICH IS NECESSARY FOR THE DISPOSAL OF A/P MINES (PLACED ON MINEFIELDS AND IN STOCK) IS ESTIMATED IN SIX MILLION (6.000.000) EURO.

CONCLUSION

- THE DISPOSAL OF A/P MINES CAN BE ACHIEVED AS:
 - A/P MINES (PLACED ON MINEFIELDS) BLOW IN PLACE OR PICK UP & CARRY AWAY AND DISPOSE OF CLOSE TO MINEFIELDS IN APPROPRIATE DESTRUCTION SITE.
 - A/P MINES (IN STOCK) DISPOSE OF IN FACTORY IN ACCORDANCE WITH STANAG 4518. THE BEST SOLUTION IS THE DISPOSAL TO BE UNDERTAKEN BY NAMSA.

CONCLUSION

- THE TIME FRAME FOR DISPOSAL OF A/P MINES IS ESTIMATED AS:
 - A/P MINES (PLACED ON MINEFIELDS):
FOUR (4) YEARS
 - A/P MINES (IN STOCK):
EIGHT (8) YEARS
- THE TOTAL AMOUNT OF MONEY FOR DISPOSAL OF A/P MINES IS SIX MILLION (6.000.000) EUROS