



UNITED STATES MARINE CORPS
U. S. MARINE CORPS FORCES COMMAND
1775 FORRESTAL DRIVE
NORFOLK, VIRGINIA 23551-2400

IN REPLY REFER TO

3500

G-6

12 APR 2015

U.S. MARINE CORPS FORCES COMMAND POLICY LETTER 2-15

From: Commander, U.S. Marine Corps Forces Command (MARFORCOM)
To: Distribution List

Subj: TRAINING IN DEGRADED SPACE, ELECTROMAGNETIC SPECTRUM, AND
CYBERSPACE ENVIRONMENTS

Ref: (a) 36th Commandant's Planning Guidance 2015
(b) CJCS Notice 3500.01 dated 30 October 2014
(c) NWDC TACMEMO 3-56.1-12 dated April 2012 (NOTAL)

- Purpose. Provide direction for conducting individual and unit training within all forms of degraded environments (space, electromagnetic spectrum (EMS), and cyberspace). Given the threat environment that exists today and is likely to grow in the future, commanders must be ready to execute assigned missions under degraded communication conditions.
- Situation. In accordance with (IAW) with the references, given adversary's technological evolving capabilities, resiliency in the face of threat is increasingly critical to a Marine Air-Ground Task Forces' (MAGTFs') success. Every day, determined adversaries seek to compromise Marine Corps networks, prevent our use of the EMS, and increasingly develop capabilities which may hold our space systems at risk. We are now at a point in the development of the force where MAGTFs need to be capable of planning, employing, and leveraging offensive and defensive cyber capabilities, space force enhancements and electronic warfare capabilities for warfighting and crisis response. This includes being capable of operating in all manners of degraded environments. Degraded operations are caused by unanticipated changes in the environment and adversary generated effects. They affect a number of operational and tactical capabilities, including Command, Control, Communication, Computer, Intelligence, Surveillance and Reconnaissance (C4ISR) systems and all of the net-centric C2 activities that we have come to depend upon.
- Policy. To enhance operational, tactical and individual warfighting capability and readiness commanders at all levels

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will incorporate degraded environments in unit training and exercises. The end state will be to increase our capacity and capability to succeed in a degraded C2 environment to include operating alongside joint, allied, coalition, interagency and non-governmental partners.

4. Execution. The purpose of aggressively pursuing degraded environment training is to identify vulnerabilities and dependencies, and subsequently develop tactics, techniques, and procedures (TTP) for operating or restoring capabilities in denied environments. Validating C2 priorities, building workarounds, reconstituting systems, isolating or confining a cyber-attack are things that commanders should learn prior to arriving on the battlefield. Elements to include during training and exercises are not limited to;

a. Individual and leader defensive measures and alternate systems/ methods awareness.

b. C4ISR operator threat awareness, protective and reconstitution measures.

c. Incorporate degraded environments into exercises and training to establish conditions where the training audience operates in and through the denied/ degraded environment, which includes loss of satellite communications, EMS dependent capabilities (i.e. radio nets, ISR feeds), networks, C2 applications (i.e. C2PC, GCSS-MC, TBMCS, AFATDS, etc.) and positioning, navigation, and timing capabilities.

d. Incorporating alternative methods, diversified communications paths and media, and employing distributed operations in a denied environment.

e. Incorporating reference (c), which addresses capability gaps in the execution of maritime command and control as well as highlights real-world threats, examines vulnerabilities and potential impacts, and provides guidance for maritime forces to use in planning and execution of operations in denied or degraded environments.

f. Incorporate meaningful results into institutional memory; tactical SOPs and lessons learned.

g. Make recommendations to change DOTMLPF where warranted.

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5. Command and Signal

a. Command. This Policy is applicable to all MARFORCOM units.

b. Signal. This Policy letter is effective the date signed.



ROBERT B. NELLER

Distribution: A