



CVG Strategy

5445 Murrell Road, Suite 102-120, Viera, FL 32955 USA

LCEP - LIFE CYCLE ENVIRONMENTAL PROFILE

EMS ELECTRO-MECHANICAL SYSTEM

US Military Land and Naval Shipboard Environments

In Accordance with US Department of Defense MIL-STD-810G, US DOD MIL-S-901D referencing NATO
Defense Standard STANAG 4370 and its Allied Publications (AECTP's)

PREPARED BY: K. GHOLSTON, CVG STRATEGY (CONSULTANT)

Abbreviated Title: LCEP EMS Land/Naval Environment

Corresponding Author: Cindy Gholston, CVG Strategy Tel: 321.253.9791

Fax: 321.256.5333 Email: cgholston@cvgstrategy.com

Last Date of Revision: 07 July 2011

Rev D

1 | Page

July 7, 2011

CVG Strategy Proprietary – All Rights Reserved. No portion of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording or use of any information storage and retrieval system without prior express written permission of CVG Strategy, LLC.

1.0 CONTENTS

| | | |
|-----|------------------------------------------------------------|----|
| 2.0 | DOCUMENT HISTORY | 5 |
| 2.1 | REVISION RELEASE | 5 |
| 2.2 | REVISION DESCRIPTION..... | 6 |
| 3.0 | ABSTRACT | 7 |
| 3.1 | EXECUTIVE SUMMARY..... | 7 |
| 3.2 | PURPOSE | 7 |
| 3.3 | EMS MISSION PROFILE | 8 |
| 4.0 | INCORPORATED DOCUMENTS..... | 9 |
| 4.1 | INTERNATIONAL STANDARDIZATION AGREEMENTS | 9 |
| 4.2 | INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO) | 9 |
| 4.3 | US MILITARY STANDARDS | 9 |
| 4.4 | NON-US GOVERNMENTAL STANDARDS..... | 10 |
| 4.5 | ORDER OF PRECEDENCE..... | 11 |
| 4.6 | TRANSPORTATION | 11 |
| 5.0 | US MILITARY VEHICLE LIST | 12 |
| 5.1 | DAILY MISSION PROFILE - GROUND VEHICLE | 15 |
| 5.2 | TERRAIN PROFILE - SPECIFIC VEHICLES | 15 |
| 5.0 | US MILITARY AIRCRAFT | 16 |

CVG Strategy | LCEP - EMS Land/Naval Environment

6.1 AIRCRAFT MISSION PROFILE 18

6.0 US NAVY SHIP LIST..... 19

7.1 SHIPS - MISSION SPEED AND RANGE 21

7.0 ANTICIPATED LOGISTIC & OPS EVENTS 22

8.1 PATH FROM FACTORY 22

8.2 TRANSPORT STATUS 22

8.3 OPERATIONS 23

8.4 SERVICE LIFE ANALYSIS..... 23

8.0 ENVIRONMENTAL FACTORS 24

9.1 STORAGE PHASE..... 24

9.1.1 DEPOT 25

9.1.2 SHELTER 26

9.1.3 OPEN 27

9.2 TRANSPORTION PHASE 28

9.2.1 ROAD 28

9.2.2 RAIL 29

9.2.3 AIR..... 30

9.2.4 SEA 30

9.3 DEPLOYMENT PHASE..... 32

9.3.1 TRACKED AND WHEELED VEHICLES..... 32

CVG Strategy | LCEP - EMS Land/Naval Environment

9.3.2 FIXED WING AND ROTARY AIRCRAFT 33

9.3.3 SHIP 34

9.4 SERVICE USE ENVIRONMENT DURATION LIST 35

9.5 LIFE CYCLE - TYPICAL 37

9.0 CLIMATIC OPERATIONAL AREAS..... 38

10.1 CLIMATE CATEGORIES 40

10.2 GEOGRAPHICAL LOCATIONS OF OPERATION 41

10.0 ENVIRONMENTAL TAILORING 42

11.0 SUMMARY 43

2.0 DOCUMENT HISTORY

2.1 REVISION RELEASE

| Revision | Author | Approved By | Approval Date |
|----------|-------------|-------------|---------------|
| A | K. Gholston | Reviewed | 12/15/10 |
| B | K. Gholston | C. Gholston | 12/20/10 |
| C | K. Gholston | C. Gholston | 01/19/11 |
| D | K. Gholston | C. Gholston | 07/07/11 |
| | | | |

2.2 REVISION DESCRIPTION

| Revision | Description | Pages Effected |
|----------|------------------------------|----------------|
| A | DRAFT RELEASE | ALL |
| B | Updated during review | Several |
| C | 11.0 ENVIRONMENTAL TAILORING | 42 |
| D | Review and minor changes | ALL |
| | | |