CONCEPT OF OPERATIONS

FOR

(MISSION SYSTEM)

Documentation Page

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Contents

Executive Summary

Concept of Operation for Mission System

<This section is a succinct account including a top-level description of the system, its major features and sub-capabilities. The executive summary focuses on the most salient aspects of the document and provides sufficient information for the executive decision maker to understand the contents of the CONOPS. >

SECTION 1: INTRODUCTION

1.1 Purpose

The purpose of this document is to understand the complete environment and constraints in which the equipment will operate for full functional capability. The information sought is not the war fighting capability or tactics, rather in simple terms the operational environment and constraints to which the system has to be developed. This information will help the designer to constructively assume the boundaries to which the system has to be designed.

1.2 Glossary of Terms

<Include an alphabetical listing of any terms and definitions needed to understand this document.>

1.3 Acronyms

<Include an alphabetical listing of all acronyms, abbreviations, and their meanings as used in this document.>

1.4 References

<Provide a list of all documents used in the development of the CONOPS. Each document listing includes the number, title, revision, and date. >

SECTION 2: CAPABILITY

2.1 Mission(s) and Need(s)

- Identify the required mission(s) in functional terms.
- If appropriate, discuss the threats, threat assessment and threat environment that drives the mission
- Describe capabilities required by User Services to accomplish the mission.

Note: Please Do not specify capabilities in terms of assets, equipment or other means that might satisfy the need; i.e., state the capability (need), not the solution (equipment).

2.2 Current Situation:

<If appropriate, provide a brief description of the current operational situation, and address the gap in relation to this.>

SECTION 3: OPERATIONS AND SUPPORT DESCRIPTION

<This section is used to identify and explain the mission, nodes, user groups, organizations, environment, interdependencies and other circumstances in which the solution must operate.>

3.1 Missions (Primary/Secondary)

<List, in priority order (if possible), each of the statutory component and/or User missions that the solution will contribute to. Indicate if the mission is primary or secondary. This sub-section provides linkage to the appropriate User/Operator, lays the foundation for scenario development, and informs development of a subsequent ORD.>

3.2 Users and Other Stakeholders

<List and briefly describe the various groups of people/user classes who will interact with the asset. Factors that distinguish a user class include common responsibilities, skill levels, work activities, and modes of interaction with the asset, capability or system. In this context, a user is anyone who interacts with the existing or future system, including operational users, data entry personnel, system operators, operational support personnel, system maintainers, and trainers. It also includes non-operators who are using the output of the asset or system. Graphical diagrams, such as use case diagrams, are very helpful when describing users and stakeholders and their level of involvement with the system.>

3.3 Policies, Assumptions and Constraints

3.3.1 Assumption –

<An assertion about some characteristic of the future that underlies the current operations or plans of the organization. An assumption is treated as if it is true until proven otherwise. Assumptions are self-imposed but needed to permit planning/ops to continue. Assumptions must be firmly based, however, and not made arbitrarily. Also, it is important to list all of the assumptions made, in order to ensure continuity. Example: An assumption may be that a Component's mission scope will be increased in the near term necessitating additional capabilities.>

3.3.2 Constraint -

<A requirement placed on the organization by a higher authority that dictates an action, thus restricting freedom of action. See also operational limitation; restraint. Operational constraints are limitations placed on the operations of the current asset or system (e.g., available hours of system operation, available number of personnel to operate the system, computer hardware and operational facilities constraints). Constraints are externally imposed and not easily removable.>

3.4 Operational Description

Briefly describe – from a user-oriented perspective – the system, its general employment/operation, and its organizational setting. The operational description includes:

3.4.1 Operating Concept (OpCon)

< An OpCon is a description, usually graphical, showing the major, interactive participants/ players/systems and subsystems and their interrelationships. Can be further divided into various phases based on primary and secondary mission roles>

3.4.2 Employment Modes

<Describes the general asset configurations and methods of operation in various situations or environments including deployment. For aircraft, these may include: peacetime mission; Wartime mission, transit; contingency operations with allies/coalition partners; training. >

3.4.3 Scheduling and Operations Planning

<This section can be used to describe what is envisioned in terms of availability, readiness, frequency of use or deployment. For example Turnaround time, Mission duration, on station time.>

3.4.4 Operating Environment

<This section is used to describe the conditions and environment, both natural and artificial, in which the system will operate.>

3.4.4.1 Geographic Area(s)

< Provide a bulleted list of the geographic region or regions, and/or sites, where the asset or system will normally operate. For Example, from MSL, Dessert, Mountain, low temperatures and density altitude >

3.4.4.2 Environmental Conditions

<Define the environment in which the asset or system will be operated and maintained. Consider: environmental compliance, electro/frequency interference, terrain, meteorological and oceanographic conditions. Whenever possible, be as specific as possible regarding environmental conditions. Include specifics such as: temperature ranges, sea states, wind velocities, cloud cover, precipitation, humidity levels, etc. possible in the geographic areas listed above. Also the structural strain due to induced factors like G, landing shock, gun fire >

3.4.5 Threats and Hazards

<This section should explain all of the hazards (natural) and threats (manmade) that the asset or system may face. In the case of threats, list opposing forces expected and their general capabilities which needs to be defended by design. Briefly discuss the security factors necessary to maintain overall operational and/or mission support effectiveness. Threat descriptions require caution, however, as often times, the source information is classified. As it is desirable to keep the CONOPS at the lowest classification level possible, using a pointing statement, such as “for information on classified threats, see appropriate documentation” may be appropriate. For hazards, describe the natural dangers to mission execution. Briefly discuss the safety aspects and considerations necessary to ensure a safe environment for the system and operators. If any applicable directives and regulations are identified, be sure to list them in references>.

3.4.6 Interoperability with Other Elements

<Describe how the asset or system will be integrated into existing, developing, or planned systems and operational procedures. This section should also identify all other system and assets which the new asset must interface with both internal to the component and external to the component.>

3.5 Mission Support Description

< Mission success depends upon two equally important components: operations and support. Please provide information on Support facilities from the existing fleet and the one that need to developed.>

3.6 Training

<The concept of training as per exiting policy to be incorporated by design or develop a new training concept for the system.>

3.7 Maintenance

<The concept of maintenance, ground support systems as per exiting policy to be incorporated by design or develop a new maintenance/support concept for the system.>

3.8 CONOPS Development Team

<List the offices and names of experts who made contributions to the document. This will provide the user of the CONOPS with PoC to follow-up when clarifications are sought.>

3.9 Appendices

<All applicable appendices>