

NAVY TRAINING SYSTEM PLAN

FOR THE

**JOINT SERVICE TRANSPORTABLE
DECONTAMINATION SYSTEM – SMALL SCALE
(JSTDS-SS)**

N76-NTSP-X-80-0405/I

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**JOINT SERVICE TRANSPORTABLE DECONTAMINATION
SYSTEM - SMALL SCALE (JSTDS-SS)****EXECUTIVE SUMMARY**

The Joint Service Transportable Decontamination System - Small Scale (JSTDS-SS) is a full-spectrum decontamination system with the ability to decontaminate non-sensitive equipment, facilities and terrain that have been exposed to chemical, biological, radiological, and nuclear warfare agents/contamination and toxic industrial materials. This requirement is associated with Joint Service and multinational capabilities for detecting, identifying and eliminating chemical, biological, radiological, and nuclear hazards. The JSTDS-SS will be employed within the integrated battle space as a means to decontaminate chemical, biological, radiological, and nuclear / toxic industrial materials hazards posing threats to military operations.

The JSTDS-SS will be transportable by a platform capable of being operated in close proximity to combat operations [i.e., High Mobility Multi-purpose Wheeled Vehicle/trailer, Family of Medium Tactical Vehicles/Trailer] off-road over any terrain. The conceptual requirement of this system does not require that it be capable of decontamination on the move, with very limited or no on-board decontamination storage inherent to the system. The JSTDS-SS will be used for operational and thorough decontamination of non-sensitive military materiel, limited facility decontamination at logistics bases, airfields (and critical airfield assets), naval ships, ports, key command and control centers, and other fixed facilities. These systems may also support other hazard abatement missions as necessary. It may require naval personnel to manually dispense decontaminate from the applicator.

This document will become the Navy annex to the JSTDS-SS's Joint System Training Plan. Naval Air System Command is the lead Naval System Command within the Navy for Joint Service Transportable Decontamination System and will produce the Navy Training System Plan. It is anticipated that no new ratings/billets will be added as a result of the introduction of the Joint Service Transportable Decontamination System- Small-scale into the Navy inventory.

The Joint Program Office, Joint Service Family of Decontamination Systems is the lead for JSTDS-SS development. Initial Operational Capability date is third quarter fiscal year 2007. The anticipated number of systems to be delivered to meet this criterion is 65 JSTDS-SS systems. Full Operational Capability date is third quarter fiscal year 2009. The anticipated number of systems to be delivered to meet this criterion is 163 JSTDS-SS systems.

**JOINT SERVICE TRANSPORTABLE DECONTAMINATION
SYSTEM – SMALL SCALE (JSTDS-SS)**

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**JOINT SERVICE TRANSPORTABLE DECONTAMINATION
SYSTEM – SMALL SCALE (JSTDS-SS)**

LIST OF ACRONYMS

ACAT	Acquisition Category
ARG	Amphibious Ready Group
BW	Biological Warfare
CBR	Chemical Biological Radiological
CBT	Computer-Based Training
CNO	Chief of Naval Operations
COTS	Commercial Off-The-Shelf
CONUS	Continental United States
CW	Chemical Warfare
DL	Distance Learning
DT	Developmental Test
FMTV Trailer	Family of Medium Tactical Vehicles Trailer
FOC	Full Operational Capability
FY	Fiscal Year
HMMWV	High Mobility Multi-purpose Wheeled Vehicle
HSI	Human Systems Integration
I&KPT	Instructor and Key Personnel Training
IMI	Interactive Media Instruction
IOC	Initial Operational Capability
JSSD	Joint Service Sensitive Equipment Decontamination
JSTRAP	Joint Service System Training Plan
JSTDS-SS	Joint Service Transportable Decontamination System–Small Scale
MIP	Maintenance Index Page
MPT	Manpower, Personnel, and Training
MRC	Maintenance Requirement Card
NA	Not Available
NAVAIR	Naval Air Systems Command

**JOINT SERVICE TRANSPORTABLE DECONTAMINATION
SYSTEM – SMALL SCALE (JSTDS-SS)**

LIST OF ACRONYMS

NAVSEA	Naval Sea Systems Command
NBC	Nuclear, Biological, and Chemical
NDI	Non-Developmental Item
NEC	Navy Enlisted Classification
NET	New Equipment Training
NETC	Naval Education and Training Command
NOBC	Navy Officer Billet Code
NTSP	Navy Training System Plan
NTPP	Navy Tactics and Techniques and Procedures
NSTM	Naval Ships' Technical Manual
OCONUS	Outside the Continental United States
OPO	OPNAV Principal Official
OT	Operational Test
PMA	Program Manager, Air
PMS	Planned Maintenance System
RBS	Readiness Based Spares
RFT	Ready For Training
RSDL	Reactive Skin Decontaminating Lotion
SLEP	Self Life Extension Program
STEP	Shipboard Training Enhancement Program
TBD	To Be Determined
TD	Training Device
TIM	Toxic Industrial Material
TOA	Table of Allowance
TRPPM	Training Planning Process Methodology
TTE	Technical Training Equipment

**JOINT SERVICE TRANSPORTABLE DECONTAMINATION
SYSTEM – SMALL SCALE (JSTDS-SS)**

PREFACE

The Joint Service Transportable Decontamination System - Small Scale (JSTDS-SS) is an Acquisition Category III (ACAT III) Program. The JSTDS-SS Increment I will be procured as a Commercial Off the Shelf (COTS) System. This Initial Navy Training System Plan (NTSP) is an early look at the JSTDS-SS program and is being promulgated in support of Milestone B decision. This document explores the various employment and support alternatives currently under consideration for Navy requirements. Since it is early in the acquisition process, some specific data was unavailable for inclusion in this document. This NTSP is developed using the Training Planning Process Methodology (TRPPM), as outlined in OPNAV publication P-751-3-9-97.

The requirements documented in this NTSP will be incorporated into the Joint System Training Plan (JSTRAP) as the Navy Annex. The U.S. Marine Corps serves as the overall Services lead for the JSTDS-SS under the Joint Program Executive Office – Chemical/Biological Defense. The Joint Program Office for the Joint Family of Decontamination Systems (JSFDS) oversees and manages the JSTDS-SS.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. Joint Service Transportable Decontamination System - Small Scale (JSTDS-SS).

2. Program Element. 0603804BP (Project DE4)

B. SECURITY CLASSIFICATION

- 1. System Characteristics** Unclassified
- 2. Capabilities** Unclassified
- 3. Functions** Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

- OPNAV Principal Official (OPO) Program Sponsor CNO (N76)
- OPO Resource Sponsor CNO (N767D)
- Functional Mission Sponsor CNO (N76)
- Developing Agency NAVAIR (AIR 3.1.4)
- Training Agency FLEET FORCES COMMAND (N722)
- Training Support Agency NAVAIR (PMA-205)
- Manpower and Personnel Mission Sponsor CNO (N12)
NAVPERSCOM (PERS-4, PERS-404)
- Director of Naval Education and Training CNO (N00T46)

D. SYSTEM DESCRIPTION

1. Operational Uses. The JSTDS-SS will be used for operational and thorough Nuclear, Biological, Chemical (NBC) warfare agents and Toxic Industrial Materials (TIM) decontamination of non-sensitive naval materiel, limited facility decontamination at naval bases, air stations, (and critical air station assets), naval ships, naval aircraft (fixed and rotary wing), ports, key command and control centers, and other fixed naval facilities. JSTDS-SS may also support other hazard abatement missions as necessary. JSTDS-SS will support decontamination

concepts contained in Joint Publication (JP) 3-11, *Joint Doctrine for Operations in Nuclear, Biological and Chemical (NBC) Environments*, 11JUL00; Navy Tactics and Techniques and Procedures (NTTP) 3-11.23; and Naval Ships' Technical Manual (NSTM), Chapter 470, *Shipboard Biological (BW)/Chemical Warfare (CW) Defense and Countermeasures*, 06AUG98.

2. Foreign Military Sales. No foreign military sales are planned at this time. This is a joint program that includes the U.S. Army, U.S. Navy, U.S. Air Force, and U.S. Marine Corps.

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST. Developmental Test (DT) and Operational Test (OT) for the JSTDS-SS are scheduled for 4th Qtr FY 2004 through 4th Qtr FY 2006.

F. EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. The JSTDS-SS system being developed is a new decontamination system that will replace the current M17 Lightweight Decontamination System.

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The JSTDS-SS system will be used to support personnel at all echelons of the Navy covering afloat, ashore, and deployed activities per requirements. The JSTDS-SS system is to allow for the decontamination of non-sensitive materiel, ships, aircraft, and facilities to minimize the effects of an NBC or TIM hazard and restore operations more safely and rapidly than with the previous system.

2. Physical Description. The JSTDS-SS will be transportable by a platform capable of being operated in close proximity to combat operations [i.e., High Mobility Multi-purpose Wheeled Vehicle (HMMWV)/trailer, Family of Medium Tactical Vehicles (FMTV)/Trailer]. It may require naval personnel to manually dispense decontaminant from the applicator. Additional physical description will be provided upon award of the contract to support the JSTDS-SS system.

3. New Development Introduction. JSTDS-SS is a modernization retrofit and the introduction of an improved capability.

4. Significant Interfaces. JSTDS-SS will complement the Joint Service Sensitive Equipment Decontamination (JSSED) System.

5. New Features, Configurations, or Material. JSTDS-SS will use the latest technology available.

H. CONCEPTS

1. Operational Concept. JSTDS-SS will be employed by Naval Forces in areas where it is reasonable to expect CBRN or TIM will be encountered.

a. Aircraft (Combat and support, fixed and rotary wing). JSTDS-SS will be used to decontaminate aircraft exteriors, ordnance, pods, drop tanks, support equipment, cargo, and personnel. Aircraft sensitive equipment, interiors, and aircrew sensitive equipment (night vision devices, radios, etc.) will be decontaminated with systems developed under the JSSED program. Decontamination operations with the JSTDS-SS must be compatible with normal aircraft operations, including, but not limited to, servicing, maintenance, refueling, and re-arming.

b. Naval Installations: Overseas installations should develop emergency base response plans that use a combination of the fire-hose wash down, man-portable, and JSTDS-SS systems to respond to situations where decontamination operations are deemed necessary. Where applicable, the JSTDS-SS will be used to decontaminate pier/dockside facilities, equipment used to support mission performance (such as, trucks, cranes, tractors, fork lifts, etc.), logistics and storage facilities (warehouses, trailers, containers, pallets, etc.), transportation media (exterior surfaces as well as interior, plus any contaminated cargo) used in shipping/hauling supplies into/from logistics centers, personnel in and around these centers, airfields/runways/taxiways interconnecting hangar complexes, hangar exteriors, and personnel.

c. Naval Expeditionary Sites. JSTDS-SS will not be a one-for-one table of allowance (TOA) replacement for the M17, but rather it will inherit the primary mission of equipment decontamination. The concept of employment will be unique to the new system.

d. Navy Medical. JSTDS-SS will be employed to decontaminate mission performance equipment assigned to deployable medical platforms and shore-based medical facilities.

2. Maintenance Concept. JSTDS-SS is expected to have one depot-level support facility for all Services; the facility site and operation requirements are to be determined (TBD). Maintenance tasks and schedules are to be determined during the Supportability Analysis process.

a. Organizational. JSTDS-SS preventive maintenance shall not exceed 4 maintenance man-hours per 100 operational hours (not including refueling, resupply of consumables, or disposal of waste). JSTDS-SS systems will not require routine or periodic maintenance while stored.

(1) Preventive Maintenance. Utilizing Planned Maintenance System (PMS) requirement cards, periodic planned maintenance will be accomplished at the organizational level without special support or tools. Specific PMS tasks are TBD.

(2) Corrective Maintenance. JSTDS-SS systems corrective maintenance will be restricted to the removal and replacement of defective repairable modules and easily accessible consumable items such as light bulbs, filters, and connectors.

b. Intermediate. TBD.

c. Depot. TBD.

d. Interim Maintenance. Not Required.

e. Life Cycle Maintenance Plan. A 20-year life cycle is assumed for JSTDS-SS once the first production articles are introduced.

3. Manning Concept. It is anticipated that no new ratings/billetts will be added as a result of the introduction of JSTDS-SS into the Navy inventory.

4. Training Concept. Throughout the JSTDS-SS fielding period, Navy commands will be outfitted based on a priority basis in accordance with the applicable fielding. Initial outfitting of each command will start with the corresponding training organization. JSTDS-SS system training will be accomplished via a combination of Instructor & Key Personnel Training (I&KPT) and New Equipment Training (NET) – “train-the-trainer” methodology. Existing Navy Chemical Biological Defense training programs will be modified to include the JSTDS-SS.

a. Initial Training. I&KPT is required at least twelve months prior to the initial system fielding. This lead time will provide sufficient time to develop or modify training courses. NET will be required when fielding JSTDS-SS. Resource constraints may preclude the use of face-to-face NET teams when JSTDS-SS is fielded. Therefore, training materials, lesson plans, Interactive Media Instruction (IMI), Distance Learning (DL), or Computer-Based Training (CBT) may be the primary source of personnel and supervisor training.

b. Follow-on Training. Follow-on/sustainment and team training will be the responsibility of each command's Chemical Biological Radiological (CBR) training coordinator, in accordance with command directives.

c. Student Profiles. TBD.

d. Training Pipelines. No new NECs will be required to support deployment and maintenance of the JSTDS-SS.

e. Total Squadron/ Installation /Expeditionary Force Billet Training Profile. Personnel will require initial and sustainment JSTDS-SS training in accordance with applicable command training doctrine.

f. Reserve Component Program Billet Training Profile. TBD.

I. ONBOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development. All new Navy induction personnel will receive JSTDS-SS introduction training in conjunction with their initial CBR training.

2. Personnel Qualification Standards. TBD

3. Other Onboard or In-Service Training Packages. TBD

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers. The JSTDS-SS manufacturer is TBD.

2. Program Documentation. An approved Milestone “B” Joint Operational Requirements Document (JORD) dated 01 March 2004, a draft Navy Annex to ORD dated 01 August 2003, a Programmatic Environmental, Safety and Occupational Health Evaluation (PESHE) for JSTDS-SS Version 1 dated 25 March 2004, and an Acquisition Program Baseline (APB) for JSTDS-SS dated 05 May 2004 are available.

3. Technical Data Plan. New Technical Manuals, Maintenance Requirements Cards (MRC), Maintenance Index Pages (MIP), PMS, or plans will be required for the JSTDS-SS.

4. Test Sets, Tools, and Test Equipment. TBD

5. Repair Parts. In order to establish a spares provisioning strategy, a Readiness Based Spares (RBS) model analysis will be conducted.

6. Human Systems Integration. The Human Systems Integration (HSI) Plan establishes the basis for effective integration of human factors engineering, manpower, personnel, training, health hazards, and safety considerations into the acquisition of the new development. The Executive Agent for the Naval Aviation System Team for all Naval Aviation Manpower, Personnel, and Training is Program Manager, Air (PMA-205). The scope of PMA-205’s responsibilities includes identifying, planning for, and documenting training support resource requirements. Manpower, Personnel, and Training (MPT) requirements will be determined in accordance with OPNAVINST 1500.76 TRPPM and validated in the JSTRAP.

K. SCHEDULES.

1. Installation and Delivery Schedules. The exact JSTDS-SS installation and delivery is TBD. However, fielding priorities will be based on:

- a. Forward deployed units/high threat bases/forward Aviation Squadrons.
- b. Out of the Continental United States (OCONUS) bases (designated by Combatant Commander).
- c. Deploying battle groups/amphibious ready groups (ARGs).
- d. Other Expeditionary forces/Aviation Squadrons/Medical units.
- e. Continental United States (CONUS) bases (designated by Commander, Naval Installations).

2. Ready For Operational Use Schedule. Planned dates for Initial Operational Capability (IOC) and Full Operational Capability (FOC) are as follows:

SYSTEM	IOC	FOC
JSTDS-SS	3 rd Qtr FY07	3 rd Qtr FY09

- 3. Time Required to Install at Operational Sites.** NA
- 4. Foreign Military Sales and Other Source Delivery Schedule.** NA
- 5. Training Device and Technical Training Equipment Delivery Schedule.** TBD

L. GOVERNMENT-FURNISHED EQUIPMENT AND CONTRACTOR-FURNISHED EQUIPMENT TRAINING REQUIREMENTS. TBD

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
Chemical, Biological, and Radiological Defense (NTSP)	N76-NTSP-X-008201C	SEA 05P	Revision C Jul 1997
Chemical/Biological Defense NATOPS	NAVAIR-00-80T-121	NAVAIR	Preliminary Dec 2003
Joint Integrated Logistic Support Plan for Joint Service Fixed Site Decontamination System	Not Assigned	MSCS	Draft 7th Update May 2001
Joint Service Personnel/Skin Decontamination System (NTSP)	N76-NTSP-X-80-0404/I	NAVAIR	Initial Draft Jun 2004
Life Cycle Cost Estimate for Joint Service Fixed Site Decontamination System	Not Assigned	MCSC	Draft (Milestone A)
Naval Ships' Technical manual (NSTM) Chapter 470, Shipboard BW/CW Defense and Countermeasures	S9086-QH-STM-010/CH-470R3	SEA 03G1	Revision 3 Aug 1998
Performance Specifications for Joint Service Fixed Site Decontamination System	Not Assigned	MCSC	Draft May 2000
Tailored Executive Analysis for Joint Service Fixed Site Decontamination System	Not Assigned	Marine Corps Systems Command (MCSC)	Draft Apr 2000
Test and Evaluation Master Plan for Joint Service Transportable Decontamination System – Small Scale	Increment I	Joint Program Office – Decontamination	Version 1.0 Sep 2004



APPENDIX A - POINTS OF CONTACT

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