

Interrelationship between JOCOTAS Waiver and Shelter Transportability Certification

Presented by
Melvin Jee, Team Leader
Composite Structures Team

2011 JOCOTAS Bi-Annual Meeting with Industry
1-3 November 2011



- Shelter Transportability Certification
 - Authority
 - Process

- Shelter Overload
 - Issue
 - Status



Shelter Transportability Certification



**AR 70-44/OPNAVINST 4600.22B/AFR 80-18/MCO
4610.14C/DLAR 4500.25, DOD Engineering for
Transportability**

replaced by

**DOD Instruction 4540.7, Operation of the DOD
Engineering for Transportability and Deployability
Program**

effective 12 October 2004



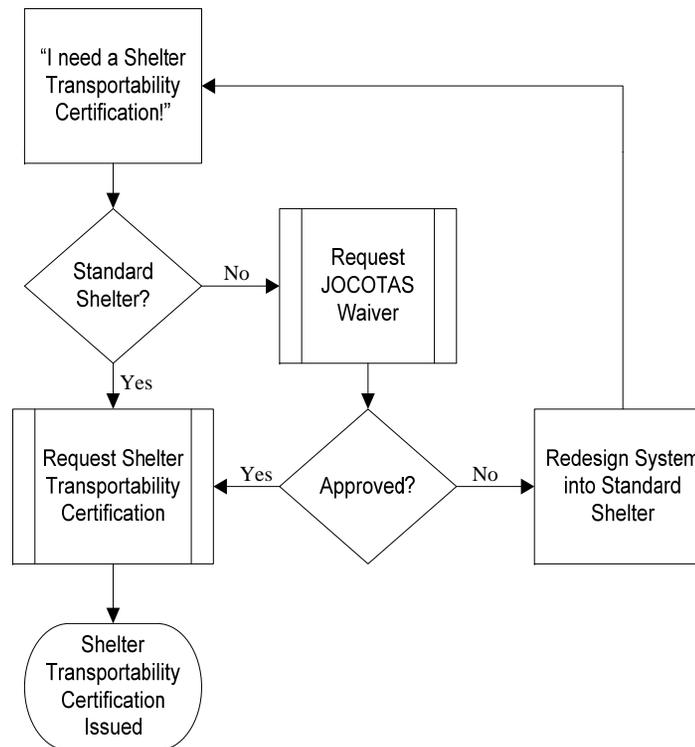
Shelter Transportability Certification



- “6.12. The component and mode transportability agents and component user representatives and materiel developers shall obtain engineering and design assistance, and certification from the Director, U.S. Army Soldier Systems Center (Natick), Kansas Street, Natick, MA 01760, for material to be:”
- “6.12.3. Mounted in DoD standard rigid-wall shelters as shown in the Joint Committee on Tactical Shelters (JOCOTAS) Brochure entitled “DoD Standard Family of Tactical Shelters” (Attn: AMSSB-RCP(N)). (The JOCOTAS must approve the use of non-standard shelters.)”

- DODI 4540.7 dtd 12 October 2004

Process Chart for Obtaining a Shelter Transportability Certification





Shelter Transportability Certification



- This is a **SYSTEM** requirement
- Natick is the DoD Certifying agent for shelter transportability
 - All shelterized systems, under a program of record, must obtain a shelter transportability certification
 - Fielded systems
 - which are being reconfigured or modified
 - being re-procured under a performance specification
 - New systems for which a Transportability Approval is required prior to a Milestone Decision
- Natick can only certify shelterized systems that
 - utilize DoD standard shelters or
 - have a JOCOTAS Waiver



Shelter Transportability Certification



- JOCOTAS Waiver Process
 - Request must be discussed with service JOCOTAS Voting Member
 - JOCOTAS Voting Member validates whether a Waiver Request should be submitted to JOCOTAS Executive Secretary
 - Waiver Request is submitted for vote (briefing may be required prior to vote)
 - Voting members vote to recommend approval or denial to JOCOTAS Chairman through majority vote
 - JOCOTAS Chairman either accepts or rejects recommendation

- Waiver Request must provide:
 - Name of System
 - POC
 - Program Plans and Fielding Requirements
 - Supporting information
 - Specific requirements preventing use of DoD Standard Shelter
 - Basis for requirement
 - Capabilities not provided by DoD Standard Shelter
 - Why DoD Standard Shelter cannot be modified or upgraded
 - Efforts to modify requirements to allow use of DoD Standard Shelter
 - Why integration cannot be modified to allow DoD Standard Shelter to be used



Shelter Transportability Certification



Certification Letter will verify to the responsible Transportability Agent that the equipment integrated into the shelter and any modifications to the shelter will not adversely affect the ability of the shelter to be safely transported within the Defense Transportation System



Shelter Transportability Certification



What is a shelter?



Shelter Transportability Certification



“... I know it when I see it ...”

- Justice Potter Stewart
(1964 regarding pornography)



Shelter Transportability Certification



“A presized, transportable structure designed for a functional requirement that provides a live-in or work-in capability. This structure can be either rigid or expandable but requires no external engineer unit support for assembly or erection.”

- AR 70-59/OPNAVINST 3900.27B/AFR 80-8/MCO 3920.5A
Department of Defense Tactical Shelter Program



Shelter Transportability Certification



Shelters also encompass ISO shipping containers* and tricons modified or built to provide live-in and work-in capability or has permanently mounted equipment

* ISO containers higher than 8 feet cannot be transported on C130

Please note that ISO corner blocks, absent a valid CSC, do not meet the requirements for lifting and tiedown provisions per MIL-STD-209K



Shelter Transportability Certification



Shelters also include transportable structures used for computers and communications equipment and other “permanently” mounted equipment (i.e., equipment not meant to be removed at destination)

Example:

An ISO Container or ISU-90 with permanently mounted electronics/appliances/support systems/tools/machinery is considered a shelter and must obtain an STC



Shelter Transportability Certification



Natick will

- for systems in DoD Standard non-Army shelters (e.g., Navy Mobile Facility), coordinate generation of STC with Appropriate Service Representative
- evaluate systems in DoD Standard and JOCOTAS waived shelters
- maintain certification records with evaluation data for each system
- generate STC for SDDCTEA's inclusion in the Transportability Approval



Shelter Transportability Certification



- Process for DoD Standard non-Army Shelters
 - System developer may submit request to either
 - Appropriate Service Representative (ASR) with copy furnished to Natick
 - Natick
 - ASR reviews and verifies that the shelter's transportability is unaffected
 - ASR submits letter, with supporting data, to Natick for concurrence
 - Natick concurs and forwards letter to transportability agent

Note: ASR and Natick may require funds from system developer to evaluate shelter for transportability

- **Process for Shelter Transportability Certification**
 - **System developer submits request to Natick**
 - Identify shelter being used
 - Provide JOCOTAS Waiver, if necessary
 - Provide engineering details, including drawings
 - Indicate whether Natick engineering assistance will be needed
 - Requirements document
 - Test plans and results
 - Any analysis performed which may have a bearing on this certification
 - Transportability Agent information
 - POC
 - **Cost estimate sent to requestor**
 - **Upon receipt of funds, Natick will**
 - Help developer through the JOCOTAS Waiver Request process, if necessary
 - Assist in developing integration/modification of shelter, if requested
 - Provide engineering support throughout process, if necessary
 - Review integration/modification plans
 - Review test plans/data
 - Assist in arranging additional testing, if necessary
 - Certify shelter for transportability
 - Forward certification to transportability agent



Shelter Transportability Certification



- Transportability Agents
 - Army
 - Surface Deployment and Distribution Command Transportation Engineering Agency (SDDCTEA)
 - Navy
 - Naval Operational Logistics Support Center (NOLSC)
 - Air Force
 - Air Force Materiel Command
 - Marine Corps
 - Marine Corps Systems Command (MARCORSYSCOM)



Shelter Transportability Certification



- Appropriate Service Representative for Shelters
 - Army
 - Natick Soldier Research, Development and Engineering Center (Natick)
 - Navy
 - Naval Air Systems Command (NAVAIR)
 - Air Force
 - Warner-Robins Air Force Logistics Center (WR-ALC/LEEG)
 - Marine Corps
 - Marine Corps Systems Command (MARCORSYSCOM)

- April 2006 – Vehicle and Shelter Overload Guidance Issued
 - TWVRMO grants waivers for vehicle overload
 - Natick grants waivers for shelter overload

- **Process for Shelter Overload Waiver**
 - **System developer submits request to Natick**
 - System Name
 - Shelter's LIN, NSN and nomenclature
 - Shelter's manufacturer's information
 - Shelter quantity
 - Empty weight, payload, gross weight, crew weight, integration information
 - Tests planned and conducted
 - Anticipated percent time spent on/off prime mover
 - Proposed use restriction if waiver is approved
 - POC information
 - **Cost estimate sent to requestor**
 - **Upon receipt of funds, Natick will**
 - Review integration
 - Review test plans/data
 - Assist in arranging additional testing, if necessary
 - Provide engineering support throughout testing
 - Review results of testing
 - Generate waiver if warranted



Shelter Transportability Certification



- Status
 - Began processing certification requests on 1 June 2005
 - Established Center for Transportability Certification
 - Shelter certification
 - Shelter overload waiver
 - Helicopter sling load certification
 - Airdrop certification
 - Brochure available



Shelter Transportability Certification and Overload



QUESTIONS?