# Small Passenger Vessel Inspector Performance and Qualification Standard

### **Wood Addendum (TIW)**

This Performance and Qualification Standard (PQS) workbook is an addendum to the Small Passenger Vessel "T" Inspector (TI) PQS. It is your responsibility to document all completed unit training items and keep track of all inspections completed during this process by filling out the Inspection Log located in appendix C of the TI PQS workbook.

This PQS workbook contains the necessary tasks and steps to conduct an Inspection for Certification and drydock examination on a wooden small passenger vessel. Those members who will be conducting inspections on wooden T-boats are required to complete all tasks and steps in this PQS workbook.

The TIW PQS addendum may be completed concurrently with the TI PQS or subsequent to receiving a TI qualification. In either case a Certification Board must be satisfactorily completed prior to receiving the "Wood" notation on the TI Letter of Certification/ Designation.

Revision Date: 24 June 2015



### **Certificate of Inspection**

**Lifesaving Equipment Inspection (LS)** 

Wood Hull (T)

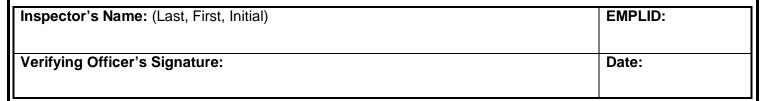
Task: TIW-LS01 Verify survival craft

Condition: During lifesaving equipment inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 46, Code of Federal Regulations Part 180 SPV-T - Lifesaving Equipment & Arrangements

|        | Steps           | References        | Initials |
|--------|-----------------|-------------------|----------|
| LS01.1 | Verify quantity | 46 CFR 180.200(c) |          |



# **Certificate of Inspection**

# **Machinery Equipment Inspection (MI)**

Wood Hull (T)

Task: TIW-MI01 Inspect bilge and high water alarms

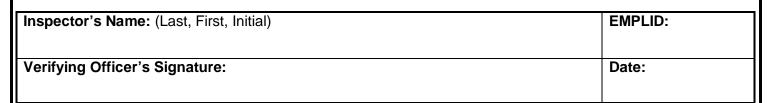
Condition: During inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 46, Code of Federal Regulations Part 182 SPV-T - Machinery Installation

|        | Steps           | References        | Initials |
|--------|-----------------|-------------------|----------|
| MI01.1 | Verify location | 46 CFR 182.530(b) |          |

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**Hull Examination** 

**Hull Inspection (HI)** 

Wood Hull (T)

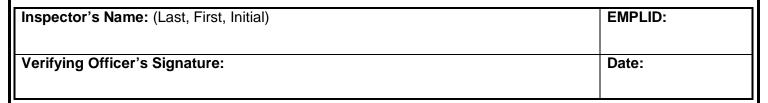
Task: TIW-HI01 Verify subdivision and damage stability requirements

Condition: During inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References: 1. Title 46, Code of Federal Regulations Part 179 SPV-T - Subdivision, Damage Stability & Watertight Integrity

|        | Steps   | References           | Initials |
|--------|---|----------------------|----------|
| HI01.1 | Verify presence of collision bulkhead (when applicable) | 46 CFR 179.210(b)(4) |          |
| HI01.2 | Verify subdivision (when applicable)                    | 46 CFR 179.212(a)    |          |



**Hull Examination** 

**Hull Inspection (HI)** 

Wood Hull (T)

Task: TIW-HI02 Inspect wood hull

Condition: During drydock Inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References:

- 1. Title 46, Code of Federal Regulations Part 176 SPV-T Inspection & Certification
- 2. NVIC 07-95 Guidance on Inspection, Repair and Maintenance of Wooden Hulls
- 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

|        | Steps                                       | References        | Initials |
|--------|---|-------------------|----------|
| HI02.1 | Inspect condition                           | 46 CFR 176.610(a) |          |
|        |   | NVIC 07-95 4.A-F  |          |
|        |   | MSM II/B.1.B.1    |          |
| HI02.2 | Inspect stress areas (garboard plank, stem, | 46 CFR 176.610(a) |          |
|        | chine, etc.)                                | NVIC 07-95 4.N    |          |
| HI02.3 | Inspect bungs for running rust or blisters  | 46 CFR 176.610(a) |          |
|        |   | NVIC 07-95 4.K.1  |          |
| HI02.4 | Inspect caulking                            | NVIC 07-95 4.L    |          |
| HI02.5 | Verify no unauthorized repairs              | 46 CFR 176.700    |          |

| Inspector's Name: (Last, First, Initial) | EMPLID: |
|--|---------|
| Verifying Officer's Signature:           | Date:   |

**Hull Examination** 

**Hull Inspection (HI)** 

Wood Hull (T)

TIW-HI03 Inspect wood hull fasteners (when applicable) Task:

**Condition:** During drydock Inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References:

1. Title 46, Code of Federal Regulations Part 176 SPV-T - Inspection & Certification

2. NVIC 07-95 Guidance on Inspection, Repair and Maintenance of Wooden Hulls

|        | Steps   | References        | Initials |
|--------|---|-------------------|----------|
| HI03.1 | Determine location of fasteners to be pulled  | NVIC 07-95 4.K.1  |          |
| HI03.2 | Inspect conditon of fastenings                | 46 CFR 176.610(a) |          |
|        |   | NVIC 07-95 4.K.1  |          |
|        |   | NVIC 07-95 4.K.2  |          |
| HI03.3 | Document type, condition, material, and       | NVIC 07-95 4.K.2  |          |
|        | location of fastenings                        |                   |          |
| HI03.4 | Inspect through bolts (keel, chine, clamp,    | NVIC 07-95 4.K.1  |          |
|        | double frame, floor timber bolts, etc.) (when | NVIC 07-95 4.K.2  |          |
|        | applicable)                                   |                   |          |
| HI03.5 | Verify no unauthorized fastenings             | NVIC 07-95        |          |

| Verifying | Officer | <b>Guidance:</b> |
|-----------|---------|------------------|
|-----------|---------|------------------|

| Inspector's Name: (Last, First, Initial) | EMPLID: |
|--|---------|
| Verifying Officer's Signature:           | Date:   |

**Hull Examination** 

**Hull Inspection (HI)** 

Wood Hull (T)

Task: TIW-HI04 Conduct internal inspection of wood hull

Condition: During drydock inspection

Standard: In compliance with applicable policies, laws, regulations and standards

References:

- 1. Title 46, Code of Federal Regulations Part 176 SPV-T Inspection & Certification
- 2. NVIC 07-95 Guidance on Inspection, Repair and Maintenance of Wooden Hulls
- 3. COMDTINST M16000.7B Marine Safety Manual Volume II Material Inspection Ch-1

|        | Steps  | References                            | Initials |
|--------|--|---------------------------------------|----------|
| HI04.1 | Inspect condition  | 46 CFR 176.610(b)<br>NVIC 07-95 4.A-F |          |
|        |  | MSM II/B.1.B.1                        |          |
| HI04.2 | Inspect frames and frame heads   | NVIC 07-95 4.F.1.A                    |          |
| HI04.3 | Inspect (sound) through bolts (keel, chine, clamp, double frame, floor timber bolts, etc.) | NVIC 07-95 4.K.1                      |          |
| HI04.4 | Verify no unauthorized repairs   | 46 CFR 176.700                        |          |

| Inspector's Name: (Last, First, Initial) | EMPLID: |
|--|---------|
| Verifying Officer's Signature:           | Date:   |

#### **Certificate of Inspection**

### **Welding Repair Inspection**

Wood Hull (T)

Task: TIW-HI05 Evaluate repair(s)

Condition: During examination of repair work

**Standard:** In compliance with applicable policies, laws, regulations and standards

References:

- 1. Title 46, Code of Federal Regulations Part 2 Vessel Inspections
- 2. Title 46, Code of Federal Regulations Part 176 SPV-T Inspection & Certification
- 3. Title 46, Code of Federal Regulations Part 177 SPV-T Construction & Arrangement
- 4. Lloyd's Register of Shipping, Rules & Regulations for the Classification of Yachts & Small Craft, 1983
- 5. NVIC 07-95 Guidance on Inspection, Repair and Maintenance of Wooden Hulls

|        | Steps                                   | References                   | Initials |
|--------|---|------------------------------|----------|
| HI05.1 | Evaluate extent of decay, defect(s) and | 46 CFR 176.610               |          |
|        | damage                                  | NVIC 07-95                   |          |
| HI05.2 | Review repair proposal                  | 46 CFR 2.01-10(a)(2)         |          |
|        |   | 46 CFR 176.700               |          |
|        |   | NVIC 07-95 Chapter 5         |          |
| HI05.3 | Verify repair materials                 | 46 CFR 176.700 & 177.300     |          |
|        |   | NVIC 07-95 Chapter 3         |          |
|        |   | Lloyd's Yachts & Small Craft |          |
| HI05.4 | Inspect repair(s)                       | 46 CFR 176.610               |          |
|        |   | NVIC 07-95 Chapter 5         |          |

**Verifying Officer Guidance:** The trainee shall also demonstrate a working knowledge of acceptable structural repair, processes and procedures.

| Inspector's Name: (Last, First, Initial) | EMPLID: |
|--|---------|
| Verifying Officer's Signature:           | Date:   |