

## AWL Module Completion Checklist for Certification rev 20051023

**Module Name** \_\_\_\_\_

**Owner** \_\_\_\_\_

<u>Date inspected</u>	<u>Inspector</u>	<u>Not Compliant Items</u>
<u>Date inspected</u>	<u>Inspector</u>	<u>Not Compliant Items</u>
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### **0.0 Instructions - info**

- 0.1 This checklist supports the Module Specifications and Standards. It is intended for preparation, review and revision of a module.
- 0.2 It is only a partial list of standards. See the full standards for explanation and more detail
- 0.3 Numbers below DO NOT match the numbers in the AWL standards.

### **1.0 Standards - info**

- 1.1 Be advised that although our standards are based on the NMRA, we have added many more items and removed others from their list.
- 1.2 Modules not in compliance with these standards may not be eligible for inclusion in a show.
- 1.3 Minimum compliance is needed for inclusion, the show boss or superintendent may forgo some standards to have the module included.

### **2.0 Design**

- 2.1 Mating ends of set meet AWL standards
- 2.2 Module design reviewed for certification and operation

### **3.0 Construction/Mechanical Certification**

- 3.1 Module Blank – Size and Frame
  - 3.1.1 Dimensions correct F/B \_\_\_\_\_ L/R \_\_\_\_\_
  - 3.1.2 Frame square D \_\_\_\_\_
  - 3.1.3 Good construction practice used, Appropriate building materials used; Straight wood, mostly clear grain, solid knots; Glued joints/No twists or bends/No sharp edges, full sanded
  - 3.1.4 Good construction design  
Crossbars 16" O.C., Board Sub deck under foam,
  - 3.1.5 Room for clamps
- 3.2 Legs w/adjusters
  - 3.2.1 Solid/sturdy legs
  - 3.2.2 Length correct w/adjustable feet (38.75-40.5") flat bottom
  - 3.2.3 Feet +/- 1.75" min
  - 3.2.4 No tool mounting of legs
- 3.3 Up, Level and Square
  - 3.3.1 Height Ok
- 3.4 Non Standard Modules
  - 3.4.1 Dimensions approved (if non-standard)

### **4.0 Track Certification**

- 4.1 Track Basics
  - 4.1.1 All track anchored
  - 4.1.2 Rail joiners used at all connections incl. joiner tracks
- 4.2 Main Line
  - 4.2.1 Setbacks from end of module L \_\_\_\_\_ R \_\_\_\_\_
  - 4.2.2 Spacing from front of module at end L \_\_\_\_\_ R \_\_\_\_\_
  - 4.2.3 24" Min Radius & Over Spacing on curves
  - 4.2.4 Type/Brand used – Code 100 at transitions
- 4.3 Non Main Line
  - 4.3.1 Setback on NMRA spacing
  - 4.3.2 Non Standard Spacing

- 4.4 Turnouts
  - 4.4.1 Brand turnouts – Peco Electrofrog strongly preferred
  - 4.4.2 Insulation joiners at crossovers
  - 4.4.3 Insulation joiners at frogs/turnouts
- 4.5 Clearance
- 4.6 All track dropped to bus wires

## **5.0 Electrical Certification**

- 5.1 Wiring Present
  - 5.1.1 Red Harness – full
  - 5.1.2 Yellow Harness full
- 5.2 Full Harness 14 ga. minimum
- 5.3 Wiring connected to track Red & Yellow
- 5.4 Wiring connected to connectors
- 5.5 Plugs/Sockets at correct ends (if not in middle)
  - 5.5.1 Plugs to right
  - 5.5.2 Sockets to left
  - 5.5.3 3' with center tap
  - 5.5.4 Min 12" with NMRA style
- 5.6 Plugs/Sockets color coded
- 5.7 Wires (not harness) not dangling
- 5.8 Strain relief
- 5.9 Polarity
  - 5.9.1 Polarity correct at track
  - 5.9.2 Polarity correct at both connectors
- 5.10 LocoNet – must have bus line through as min
  - 5.10.1 LocoNet Bus - 2 female/1 male bus
  - 5.10.2 Permanent jacks and line
  - 5.10.3 16" lead to right
  - 5.10.4 Securely mounted with strain relief
  - 5.10.5 Approx every 8 feet of module
- 5.11 UP Panels – Front & Rear (optional)
  - 5.11.1 If included, must have front & rear units
- 5.12 Block Protection (optional)

## **6.0 Scenery & Appearance Certification**

- 6.1 Base Paint – no bare wood or foam
- 6.2 Base coat scenery or paint
- 6.3 Track Ballast
  - 6.3.1 Track ballasted
  - 6.3.2 Flange ways clear of ballast
- 6.4 Scenery 1 pass
  - 6.4.1 Consistent with theme
  - 6.4.2 Consistent with AWL colors
- 6.5 Scenery Damage
- 6.6 Scenery details (optional)
- 6.7 Structures (optional)
  - 6.7.1 Consistent with theme
- 6.8 Scenery does not interfere with operation

## **7.0 Environment**

- 7.1 Backdrop/Skyboard
  - 7.1.1 Correct Dimensions
- 7.2 Shields (optional)
- 7.3 Visitor Guide ropes (optional)
- 7.4 Transport Rig or Coffin (optional)

## **8.0 Skirting**

**9.0 Operations**

- 9.1 Module Name/Location \_\_\_\_\_
- 9.2 Identify Sidings & Capacity \_\_\_\_\_
- 9.3 Name Industry \_\_\_\_\_
- 9.4 Waybills \_\_\_\_\_

**10.0 Signaling (optional)**

- 10.1 Detectors
- 10.2 Signal Board (SECc)
- 10.3 JMRI diagram & control
- 10.4 TBD

**11.0 Maintenance - construction**

- 11.1
- 11.2
- 11.3 Basic Module Maintenance & Repair
- 11.4 Track Maintenance & Repair
- 11.5 Electrical Maintenance & Repair
- 11.6 Appearance Maintenance & Repair
- 11.7 Environment Maintenance & Repair
- 11.7.1.1
- 11.8 Ops Revisions
- 11.9 Signaling updates
- 11.10 Misc maint. & repair