HUB Division, Inc.
Northeastern Region
National Model Railroad Association
65 Branch Road; East Bridgewater, MA 02333-1601
Website: www.hubdiv.org

Richard Johannes, Chairman
HUB Division Signal Committee
40 Pelham Street
Newton, MA 02459-1809
E-mail: hubboard7@Hubdiv.org

Signal Committee BOD Report
June 8, 2013

We've had steady continuous progress including successful train tracking at the Wilmington Show. We had a Signal Committee meeting on May 14th. Below are the decisions that were made at that meeting. They reflect the current status.

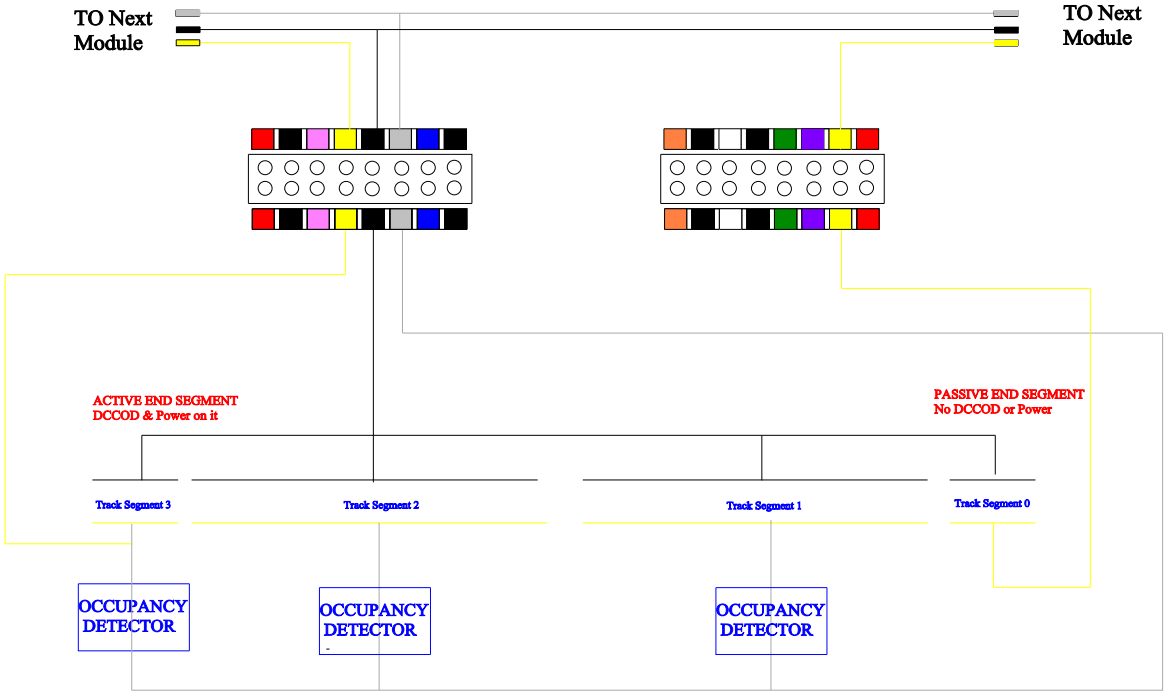
1. The Committee recommended creation of a Signaling Project link on the HUB Division Website located on the Module page. We'll seek help from the WebMaster on this.
   Content would include:
   a. Our Requirements document
   b. PDFs of the "Primer on Signaling," "Signaling in 90 Minutes," and the "NMRA 2012 Presentation."
   c. Wiring diagrams for an Active Module
   d. Links for Signal vendors
   e. Address assignments by module name of Accessory Decoder numbers
   f. Address assignments of C/MRI SMini Board addresses by module name
   g. Signaling Documentation (current status)
2. Approved wiring diagrams for both the corner modules and active modules. This will include discussions of the design for the harness and terminal strips.
3. Accepted a proposal for an end segment option to grandfather existing modules with turnouts at the 4 ½ inch mark. Extend the modeler's track by 3 inches to support addition of a ditzel and use commercial Atlas code 100 NS 6 inch joiner tracks (part #822) that must be supplied by the modeler
4. Current status of communications evolving. Baud rate may fall to 19.2
5. Proposal accepted to adopt Chubb DCCODs for all mainline detection
6. Plans for training on Designer
7. Proposal accepted that for issuing SuperMini Board Addresses will be managed by the superintendent. Addresses should be accessible from the WebSite.

8. Proposal accepted that the Modular Superintendent will manage this. Addresses should be available from the WebSite.
9. WiFi and WiThrottle issues. These seem solved for now.
10. Documentation. Both what we've done and a record of how all HUB Division active modules are configured. Good start here. We'll put this on the Website in whatever state it's in.
11. Proposal accepted to adopt a standard of triangular G-type common anode signals for the HUB Division standard on Division owned modules. Members may make any decision they wish. We will not support use of bipolar or common cathode signals.
12. Proposal accepted to signal the corner modules in the position of preferred movement at the beginning of each corner module.
13. Sourcing of hardware: Continue with SLIQ.
14. We have obtained a full set of the 3 volumes of Chubb documentation.
15. Working to establish and approve plans for resisted wheelsets. This is a work in progress and is, in part, a build versus buy decision.
16. Have worked out a wiring plan for the "Bridge Module."
17. Have created a proposed plan for the "Crossing Module" and "Upton Throat."
18. Await completion of the new Boston Yard until it approached completion.
19. Planning for a CHUBB-to-HUB board for supporting easy signal wiring. This is work in progress
20. Plans to update the Modular Specification (esp for harness definition). Should it also include approaches to wiring an Active Module as well as a Passive Module? Larry Madson is doing this currently.
21. Fold all of above into a budget plan for FY14. Remember we are to display next year at the NMRA National in Cleveland. We have purchased sufficient SMINI Boards and DCCODs to complete the project for the NMRA next summer.

SOURCES for Common Anode Signals

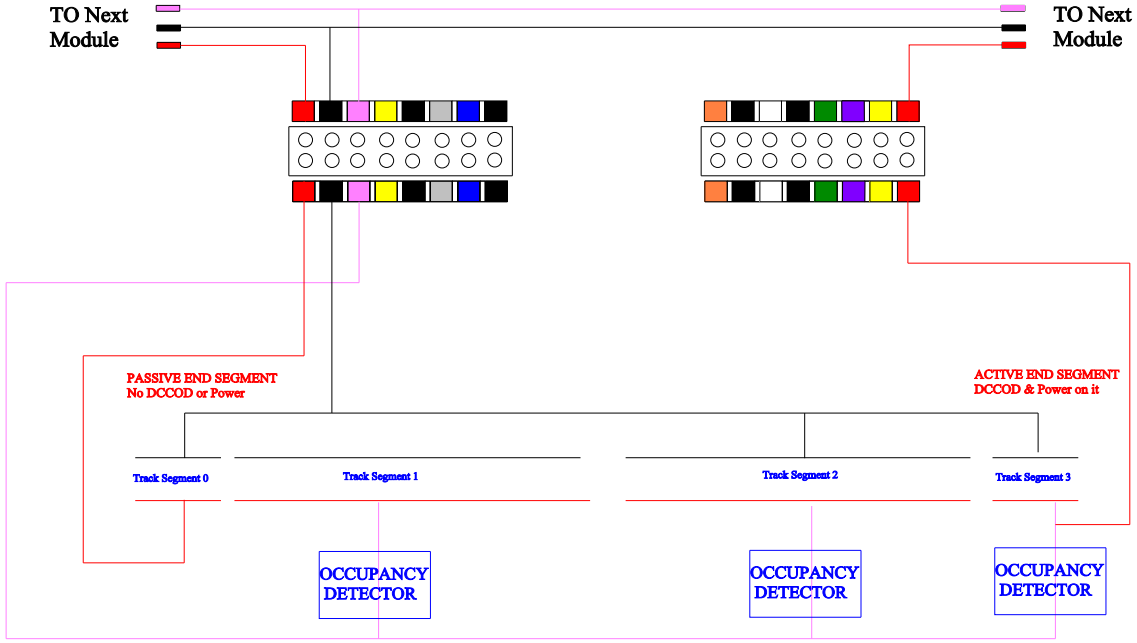
Vendor	Website
Custom Signal Systems:	**http://www.customsignalsystems.com/**
Integrated Signal Systems:	**http://www.integratedsignalsystems.com/**
NJ International:	**http://www.njinternational.com/**
Oregon Rail Systems:	**http://www.oregonrail.com/**
South Bend Signal Company:	**http://www.sbsignal.com/**
Tomar:	**http://www.sbsignal.com/**

Active Module - Inner Mainline Wiring
Passive and Active End Segments Shown
Two Detected Intervening Segments in Module Besides the Active End Segment



Front of Module

Active Module - Outer Mainline Wiring
Passive and Active End Segments Shown
Two Detected Intervening Segments in Module Besides the Active End Segment



Front of Module