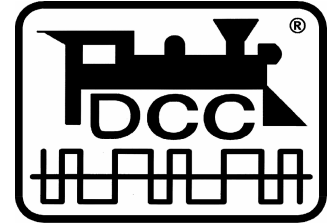


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Minutes

The summer DCC meeting was held **Thursday**, July 18th, at 8:15 am, in Ballroom A of the Ft. Lauderdale Convention Center. Attendees were:

Juergen Linder	ESU	Gil Fuchs	NMRA # 123385
Bernd Lenz	Lenz	Ed Majury	Atlas
Georg Fuhs	Roco	Bob Jacobsen	NMRA # 121927
Jim Scorse	NCE	Carl Harcourt	Kam Industries
Rutger Friberg	NMRA # 101462	Michael Greene	NMRA # L05433
Brian Barnt	NRMA #L5192	AJ Ireland	Digitrax
Karl Kobel	K2 Engineering (Wangrow/System 1)	Keith Gutierrez	CVP Products
Stan Ames	NMRA #L5357	David Nickolson	ZTC
Steve Dominguez	Soundtraxx		

and several other NMRA members who observed, but did not participate.

1.1. Review of Spring Meeting

Minutes accepted.

1.2. Topic 9910241 – Analog Output Instruction

Instruction is a subset of the *Advanced Operation Instruction* group and is three bytes in length as follows:

```
00111101 0 AAAAAAAAA 0 DDDDDDDD
```

where:

AAAAAAAAA = Analog Function Vector (0-255)

DDDDDDDD = Analog function data (0-255)

Discussion centered around the need for this function. Values for AAAAAAAAA will be assigned as needed by the Working Group, but otherwise reserved. Value 00000001 is defined for Volume control, others are reserved. Vote to allocate instruction was 14-0-1 (Yea-Nay-Abstain).

Steve Dominguez will implement a demonstration of this new instruction for the fall meeting.

1.3. Topic 0106171 – Equipment Control Instruction

(was Power Station Control Instruction)

- One alternate possibility is to use straight CVs, and treat the equipment like any other device.
- Tabled till Durango – Stan to research alternate proposal.

1.4. Topic 0104191 – CV Table Structure Proposal

Tabled till Toronto meeting (Summer 2003)

1.5. Topic 0107122 – User Defaults

This is one use of the CV Table proposal Topic 0104191.

Jim Scorse to implement use (demonstration in Toronto).

1.6. Topic 0109071 – Small Plug/Socket Changes

Larger diameter pins, shorter length pins. These are commercially available pins and sockets.

Pin length	0.118"
Tolerance	0.001"
Pin diameter	0.017"

Discussed criteria, more information is needed about commercial pins/sockets. Juergen Linder to research.
Vote to move to 10 week review 9-0-4.

1.7. Topic 02062001 - Decoder Identity

- Should we have separate CVs for Hardware version & software version/ feature set?
- Or a bitmap of features?
- Need a link to find the manual on the manufacturer's web site.
- CV for minor version number?
- Two CVs as a pointer to a machine readable URL
- (Karl) What would the requirements for conformance be?
- (Bernd) Two CV's referenced to the manual
- (Bob) Machine & Human readable, used by decoder users to find the manual.
- CVs for Feature ID (2 CVs or 3 CVs) as index to manual
- Structure of index

Vote for the NMRA to define additional CVs – unanimous.

Motion to Define 3 CVs, Manufacturers to define structure & when the parameters should change (vote 6-9-2)

Counter-motion: Define 3 CVs, NMRA to define structure of index for consistency, future proposal for the minimum criteria for when the values should change (vote 12-2-3).

Bob, Michael, & Gil to research.

1.8. RP Revisions

RP-9.2.3 – Signatures Needed

Attached to this e-mail is a signature sheet for RP-9.2.3. All comments received were considered per Technical Department procedures, and most were implemented. The revised proposal is on-line at www.nmra.org.

1.9. Bi-Directional Communications

- Timing: settling time needs to be defined
- Conditions: compatible with older power stations?
- What happens with dueling decoders
- Testing?
- Stan to test older MRC decoder
- Brian to post reference detector & decoder modifications.

Vote to proceed with this method 9-0-0 (several people left early, due to other commitments)