

# SECTION 305 TECH SUB COMM

MINUTES

JULY 26, 2018

3:00PM EASTERN

CONFERENCE CALL

<b>FACILITATOR</b>	<i>George Hull, Vice Chair, NGEN Technical Subcommittee</i>
<b>ATTENDEES</b>	<b>Core Team Members:</b> <i>George Hull, Jeff Gordon, Jennifer Bastian, Jennifer Bastian also as proxy for Momo Tamaoki, Brent Thompson for Jason Biggs, Allan Paul, Phil Meraz, Mike Jenkins, Eric Curtit, Duncan Copland, Tarek Omar, Melissa Shurland, Tammy Krause, Larry Salci, Mike Murray, Brian Marquis, Chris Witt, Michael Burshtin, Steve Hewitt, Industry Members:</i> <i>Richard Curtis, Hamid Sharif Kashani, Jack Madden, James Michel, Jonathan Michel, Paul Jamieson, Ray Ginnell, Joe Kenas, Al Bieber, Darrell Smith</i>
<b>ABSENTEES</b>	<i>Charlie King, Marci Petterson, Jeff Schultz, Charlie Poltenson, Curtis McDowell, Ray Hessinger, Jason Biggs, John Bell, Sal DeAngelo, Art Peterson, Anand Prabhakaran, Momo Tamaoki</i>

## DISCUSSION/DECISIONS MADE

### 1.

Technical subcommittee Vice Chairman George Hull, Amtrak, called today's meeting to order and asked Steve Hewitt to call the roll.

After calling the roll, the presence of a quorum was confirmed.

**As always, industry participants are asked to email a notification of their attendance to Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com)**

### 2.

#### **Review of the Meeting Agenda – George Hull:**

George Hull provided a brief overview of today's meeting agenda.

### 3.

#### **Review of Action Items that are not on the agenda – Steve Hewitt:**

Steve Hewitt reviewed the open action items, providing a brief update on only those items that were not to be specifically covered on the agenda:

**Maintaining Industry Participation List: Status:** There are currently **247** registered industry participants.

**Requesting Backgrounder educational document:** The 2018 version of the NGEN Backgrounder is available electronically or by hard copy. Contact Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com) for copies; if you desire hard copies, please tell Steve how many you need and provide a mailing address.

As of 7-26-18, Steve has distributed a total of 465 copies (electronic and hard copies).

#### **AWG/RVACC Update:**

Melissa Shurland, provided a complete update on the RVAAC and AWG efforts at the NGEN Annual Meeting on 2-23-18. The presentation is available on the NGEN website at [www.ngec305.org](http://www.ngec305.org).

On 5-3-18, Melissa Shurland provided the following update for Steve Hewitt to include in the minutes of the meeting:

*No new updates on AWG. We are working in final report.*

*No new info from US Access Board on the rule for accessibility on Rail Vehicles.*

Nothing new to report as of 7-26-18.

**Updating ECP Standards** This ongoing item is being tracked by the Technical subcommittee with status updates provided as activities occur.

On 5-17-17, Paul Jamieson provided the following update for inclusion in the minutes:

*Through April 2018, the revenue service demonstration has accumulated 699,126 ECP miles and 1,874,840 emulation miles for a grand total of 2,573,966 miles. Since January 2018, the ECP mileage is 171,594 miles. Coach cars 82610 and 82629 were removed from revenue service for non-ECP preventive maintenance and some minor updates. These coach cars will be out of service for 4 to 6 weeks. The remaining two coach cars will be undergoing the same maintenance and updates after the first two coach cars are returned. The other coach cars will be operated in emulation mode during the service removal time period.*

*The 5 members of the ECP technical working group published an ASME paper on the project to date which was a follow up to the 2013 paper.*

*An ECP project update will be presented at the APTA Rail Conference in Denver. Tentative time slot is Tuesday afternoon June 12th.*

*The revenue service demonstration period will end during Q4 2018 or Q1 2019 due to the waiver expiration. Currently, Amtrak intends to continue the revenue service operation and accumulate additional time to justify the extended periodic maintenance interval.*

On 7-26-18, Paul Jamieson reported that the waiver on ECP runs out in the next 6 months and FRA is in the process of closing it down. Another waiver is in the process of being prepared under Amtrak.

Ongoing

#### **Periodic Brake Maintenance:**

On 5-17-18, Paul Jamieson provided the following information for inclusion in the minutes:

*The FRA has requested APTA PRESS Mechanical to support the codification of various existing waivers regarding brake periodic maintenance as cover under 49 CFR 238.309. Electronic air brake (NYAB and Wabtec), 26C, 26L and other types of brake equipment will potentially be lengthened under this review. The FRA has a short time window to prepare these updates for internal review and then be published in the Federal Register later this year.*

Nothing new to report as of 7-26-18

Ongoing

#### **Metro North Dual Mode Locomotive Procurement:**

As of 6-14-18, Metro North has reviewed the Amtrak RFP and noted that it includes Dual Mode Locomotive. Metro North and Amtrak have shared their dual mode documents with NYS DOT and "we have compared them".

Last week, Amtrak and Metro North met to discuss the differences and areas of common ground to make both procurements as cost effective as possible and bring them in close coordination.

Metro North's RFP has not hit the street yet – and it is looking like late Summer or early Fall.

No formal update was provided by NYS DOT on today's call (7-26-18). Steve Hewitt reported that he had heard that Metro-North was to present its Staff Summary to the Metropolitan Transportation Authority's (MTA) Committee Meeting on 7-23-18 for its permission to conduct an RFP for the procurement of Dual Mode Locomotives, and if approved it would be presented to the MTA Board for consideration on 7-25-18.

NYS DOT will provide an update as more is learned.

#### **Update: AAR TAG Committee on Headlights:**

On 7-12-18, Tarek Omar, FRA, provided the following update on the TAG Committee on Headlights:

*Fleming/Page Engineering reviewed the Phase II subjective testing proposed criteria and test methodology recommendations from his Chicago presentation (already distributed to the TAG).*

*Recommendations included –*

- \* Day & nighttime testing (conspicuity)*
- \* 2 models of locomotives configured for tests*
  - o Headlights above the cab windows*
  - o Headlights on the nose*

- \* Test with the locomotive in motion
- \* Testing both halogen & LED under the same conditions
- \* Reflectivity tests against human sized objects in;
  - o High visibility clothing (to simulate yard workers)
  - o Dark clothing (to simulate civilians & trespassers)

Kam/FRA asked about the de-icing criteria for the LEDs – the TF reviewed section 3.8 ENVIRONMENTAL which currently has ? inches of ice to be melted within 30 minutes of operation in ambient temps between -40C to 70C. The TF Chair noted that the criteria could change (subject to FRA compliance) after the Phase II testing conclusions are reviewed by the TAG.

The TAG approved the FRA request to publish the FRA-ENSCO final report on the FRA website.

On 7-25-18, Tarek Omar reported that they are preparing for Phase two. Once underway, Tarek will provide status updates as he did with Phase one.

#### **University of Nebraska High Speed Wireless Study:**

On 7-12-18, Hamid Sharif Kashani reported that they are continuing to complete simulation models for 5G and other advanced wireless technology for High-Speed Trains. They are looking at cellular systems and interfacing with PTC and in support of passenger internet service. Development of the model should be completed in October. There will be lab testing and field testing to verify the model. Anyone with questions or input please feel free to contact Hamid.

#### **Next update 8-9-18**

#### **4. Approval of the Minutes from 7-12-18 – George Hull, Amtrak:**

With a quorum having been confirmed, George Hull called for a motion to approve the minutes from the 7-12-18 conference call:

A motion to approve was offered by Eric Curtit, MODOT, and was seconded by Phil Meraz, Iowa DOT and Allan Paul NCDOT (simultaneously). With no objections or exceptions forthcoming, the minutes from the 7-12-18 conference call were considered approved as presented.

#### **5. Update: Multi State Rail Car Procurement – Steve Hewitt for Momo Tamaoki, Caltrans:**

Momo Tamaoki provided the following update for inclusion in the minutes. Steve Hewitt read them into the record:

- *Caltrans is working on the Document Change Requests (DCR) for the cab cars to submit to the NGENC. We are still on schedule to submit those DCRs in July. Two are already completed.*
- *Caltrans and SCOA are working on the Wi-Fi change order for Caltrans cars. Coach 1 B cars (End cars) will include the same six Wi-Fi antennas and cable arrangement as installed on the AAF. Access points and router are not included and will be installed later by Caltrans.*
- *The Internal Testing meeting took place between Caltrans, IDOT, SCOA and Siemens on July 10 in Sacramento, CA. We discussed strategies and overview of Vehicle Qualification Testing, Static Testing and Dynamic Testing. Based on some of the scenarios explored during the discussions, Caltrans is preparing a rough draft of test plan to share with Amtrak and FRA for the workshop that will be held on Aug. 7 and 8 to discuss testing and all logistics and costs associated with it. (i.e. technical, insurance, indemnification, etc.)*
- *The next design review is scheduled for the week of Aug. 6 in Chicago. The discussion topics include interior, coupler, diaphragm, End Doors, Wheelchair Lift and Trap Door.*
- *We are in the process of scheduling our first café cars design review meeting in September. We are targeting September 11 & 12. It will be held in Sacramento.*

#### **6. Document Control Update – Tammy Krause, NGENC DCM:**

Tammy Krause provided the following update for today's call (7-26-18):

*"The document control manager is happy to announce that revision B.1 will be released to Steve Hewitt later today. I will also notify AASHTO so they can change the revision level mentioned on the website. I have received no new DCRs since the last meeting and all of the previous ones have been addressed. Duncan Copland of the Interiors Working Group has a question about a seat track*

*drawing that he would like to ask the TS. I have nothing else to report so I will turn this over to him."*

*Single Level Specification C – " Steve had sent out the 4 completed DCRs for the single level specification that have been approved by their appropriate working groups. These are the first 4 DCRs for the next revision of the Single Level spec. I had referred to it as Revision C, however, it will be Revision B.2 because the procurement is still going on. These 4 DCRs will hopefully be approved by the TS today.*

*The 4 DCRs are: I will explain that 003-151 was submitted to the VTI group and they requested more information which was provided by Siemens in the presentation. There were two different Siemens presentations sent, the second one is the relevant one. Based upon the additional information, the DCR was accepted.*

*The other 3 DCRs were submitted and rejected. They were revised and resubmitted and were given different DCR numbers. Hopefully the Technical subcommittee will vote to approve these 4 DCRs."*

## **7.**

### **Review of Single Level DCRs – approved by the Technical working groups – Tammy Krause:**

Tammy Krause provided an overview of the 4 additional DCRs for the single level car specification (Revision B.2).

She noted that DCR 151 was submitted to the VCI technical working group as it deals with lateral balance. More information was requested and provided by the manufacturer (Siemens). Ultimately, the working group accepted the DCR.

The other 3 DCRs under consideration today, deal with HVAC and had originally been rejected for consideration in Revision B.1. They were re-written – re-submitted and accepted by the Mechanical working group.

## **8.**

### **Consideration of approval of the DCRs presented today – George Hull, Amtrak:**

Following Tammy's overview, and with no further discussion forthcoming, George Hull called for a motion and a second to approve the DCRs as submitted.

A motion to approve the DCRs as submitted was offered by Charlie Poltenson, NYSDOT and seconded by Jennifer Bastian, IDOT.

With no further discussion, George asked Steve Hewitt to conduct a roll call vote of voting members present.

George Hull, Amtrak – aye  
Jeff Gordon, FRA – aye  
Jennifer Bastian, IDOT – aye  
Jennifer Bastian as proxy for Caltrans -aye  
Allan Paul, NCDOT – aye  
Charlie Poltenson, NYSDOT – aye  
Phil Meraz, Iowa DOT – aye  
Eric Curtit, MODOT – aye  
Brent Thompson for Jason Biggs, WSDOT – aye  
Mike Jenkins, Oregon DOT – aye

With a quorum having been confirmed and all votes cast in favor, George Hull determined that consensus has been achieved and the motion is approved.

## **9.**

### **Update: Electronics on Trains Working Group – Tom Sisler:**

Tom Sisler was unavailable today (7-26-18) – so this item was tabled until the next call (8-9-18).

## **11.**

### **Other Issues:**

Duncan Copland, team leader for the Interiors working group, reported that the group will be developing a seat track drawing for consideration, initially by the Interiors working group members, and ultimately, it will be sent to the full Technical subcommittee for review and comment, before being put forth for consideration as a DCR. Once again, Duncan emphasized that the Interiors Group is in need of seat manufacturer members to participate in the Interiors working group.

With no further business forthcoming for today's call, George Hull adjourned the meeting at around 3:25pm Eastern.

**Next Call: 8-9-2018 – 3:00pm Eastern**

### Decisions and Action Items

**Updating ECP Standards** This is an ongoing item which the Technical subcommittee is tracking – it is anticipated that status updates will take place on every other call.

On 5-17-17, Paul Jamieson provided the following update for inclusion in the minutes:

#### ***ECP Status Update***

*Through April 2018, the revenue service demonstration has accumulated 699,126 ECP miles and 1,874,840 emulation miles for a grand total of 2,573,966 miles. Since January 2018, the ECP mileage is 171,594 miles. Coach cars 82610 and 82629 were removed from revenue service for non-ECP preventive maintenance and some minor updates. These coach cars will be out of service for 4 to 6 weeks. The remaining two coach cars will be undergoing the same maintenance and updates after the first two coach cars are returned. The other coach cars will be operated in emulation mode during the service removal time period.*

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Ongoing

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No update for 7-12-18

Ongoing

#### **AWG/RVACC Update:**

On 2-23-18, Melissa provided an update on the FRA/OSU project. She also provided a complete update on the RVAAC effort at the NGEAC Annual Meeting on 2-23-18. The presentation is available at [www.ngec305.org](http://www.ngec305.org)

No update for 7-26-18

Melissa has reached out to the Access Board for a status on the issuance of the proposed rule but has not received a response as of 7-12-18. When she receives it, she will send it to Steve Hewitt for dissemination to the members of the Technical subcommittee.

Nothing new to report on 7-26-18

Ongoing

**Requesting Background educational document:** The two-pager educational document is available electronically or by hard copy. Contact Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com) with the number requested and an address to send them to. As of 7-26-18, Steve has distributed a total of 465 copies (electronic and hard copies).

**Maintaining Industry Participation List: Status:** There are currently **247** registered industry participants. Members are asked to review the industry member list and send any corrections – additions – deletions to Steve Hewitt.

**AAR TAG Committee on LED Headlights:**

Phase One is complete.

Phase two is being developed – once it begins – updates will be provided.

**Procurement Updates:**

**Multi-State Car Procurement - Caltrans (Lead State):** Progress reports from the lead state will be provided on each subcommittee call. See agenda item 5, above, for today's update (7-26-18).

**Charger Locomotive Update** – updates will be provided as warranted.

**Document Control Update as of 6-14-18:**

Revision B.1 of the Single Level Car Specification has been completed and she will be sending it to Steve Hewitt and will also inform AASHTO for updating the list on the website.

There have been no new DCRs submitted since the last report.

**Consideration of Revision B.2 DCRs approved by the appropriate Technical working groups:**

Four DCRs were presented for approval by the Technical subcommittee. All four were approved by the subcommittee on 7-26-18.

**Electronics on Trains Working Group:**

On 6-28-18, Tom Sisler provided the following update:

*Meeting held on Tuesday 6/26.*

*Reviewed the DTL Software Specification PRIIA 305-920 Draft and made notes for possible changes.*

*Requirements specification being created by this group needs reorganization into a first draft which will be distributed to the committee and a round of comments will take place.*

Next update – 8-9-18

**DEF-UREA Update:**

DEF supply and usage are reported to be working well in all areas of the country where the Chargers are in use. No issues reported. The one item that is being worked on is the information needed from Amtrak on usage amounts, for invoicing in the Midwest in relation to the multi-state split.

Ongoing

**University of Nebraska presentation on High Speed wireless technology:**

Hamid Sharif Kashani reported that they are continuing to complete simulation models for 5G and other advanced wireless technology for High-Speed Trains. They are looking at cellular systems and interfacing with PTC and in support of passenger internet service. Development of the model should be completed in October. There will be lab testing and field testing to verify the model. Anyone with questions or input please feel free to contact Hamid.

**Next update: 8-9-18**

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**Amtrak Equipment Procurement Update:**

The RFP for Power and the RFI for passenger cars/trainsets are on the street. A couple of OEMs have come in to talk and questions continue to come in as well.

Nothing new to report on 7-26-18.

**Next call: 8-9-18**

**Call in number is:**

**888 585-9008 access #: 559-120-127**

**ATTACHMENTS**



**PRIIA Section 305 Tech Sub Committee Meeting**

**July 26, 2018**

The agenda for the meeting is below:

- |  |              |
|--|--------------|
| 1. Roll Call   | Steve Hewitt |
| 2. Review Meeting Agenda   | Steve Hewitt |
| 3. Review Action Items   | Steve Hewitt |
| 4. Approve Minutes from 7-12-18                                    | George Hull  |
| 5. Update: Multi-State Rail Car Procurement                        | Steve Hewitt |
| 6. Update: Document Control  | Tammy Krause |
| 7. Review Single Level DCRs – approved by Technical working Groups | Tammy Krause |
| 8. Consideration of approval of the DCRs presented today           | George Hull  |
| 9. Update: Electronics on Trains Working Group                     | Tom Sisler   |
| 10. Other issues   | All          |

11. Review this meeting:

Steve Hewitt

- a) Decisions
- b) New Action Items

***Technical Sub Committee Conference Call Meeting:  
Thursday 7-26-18 / 3:00pm Eastern / 1-888 585-9008 / passcode 559-120-127#  
Please call in a few minutes early so all is in attendance for Roll Call.  
Thank you  
Next Call -8-9-18 at 3:00pm Eastern***