

# SECTION 305 TECH SUB COMM

MINUTES

JUNE 14, 2018

3:00PM EASTERN

CONFERENCE CALL

|                    |  |
|--------------------|--|
| <b>FACILITATOR</b> | <i>Charles King, Chair, NGENC Technical Subcommittee</i>   |
| <b>ATTENDEES</b>   | <b>Core Team Members:</b> Charles King, Jeff Gordon, Momo Tamaoki, Momo also as proxy for Eric Curtit, Allan Paul, Ray Hessinger, Jennifer Bastian, Phil Meraz, Jason Biggs, Ron Pate, Michael Burshtin, Melissa Shurland, Steve Hewitt, Tarek Omar, Chris Witt, Hamid Sharif <b>Industry Members:</b> James Klaus, Glen Rees, Tom LaMano, Bill Saddler, Kevin Myles, Steve Morrison, Martin Bloedt, James Michel, Darrell Smith, Jon Mullin, Casey skinner, Jack Madden, Dick Bruss, Josh Coran |
| <b>ABSENTEES</b>   | <i>George Hull, Marci Petterson, Jeff Schultz, Charlie Poltenson, Art Peterson, Eric Curtit, Tammy Krause, Sal DeAngelo, Brian Marquis, Anand Prabhakaran, Larry Salci, Tom Sisler</i>   |

## DISCUSSION/DECISIONS MADE

### 1.

Technical subcommittee Chairman Charlie King, 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 – Charlie King:**

Charlie King 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 **245** registered industry participants.

**Requesting Backgrounder educational document:** The 2018 version of the NGENC 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 6-14-18, 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 NGENC Annual Meeting on 2-23-18. The presentation is available on the NGENC 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 today on RVACC or AWG - 6-14-18.

**Charger Locomotive Update** – This item will remain as an open item with progress reports provided as appropriate.

**Updating ECP Standards** This is an ongoing item which the Technical subcommittee is tracking – it is anticipated that status updates will take place as activities occur.

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.*

*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.*

Nothing new to report on 6-14-18

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 potential 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 on 6-14-18

Ongoing

**Electronics on Trains Working Group:**

On 6-14-18, Tom Sisler provided the following update, which Steve Hewitt read into the record:

*Hamid Sharif of UNL made a presentation to the committee on their work for the FRA and PRIIA this week. Our requirements specification will be good input to their research into what Railroads might use digital communications for. Our requirements specification will be a wish list of what features a Railroad can choose from and UNL could vet the list and possibly do simulations.*

Next update 7-12-18

**4. Approval of the Minutes from 5-31-18 – Charlie King, Amtrak:**

With a quorum having been confirmed, Charlie King called for a motion to approve the minutes from the 5-31-18 conference call:

A motion to approve was offered by Allan Paul, NCDOT, and was seconded by Jennifer Bastian, IDOT. With no objections or exceptions forthcoming, the minutes from the 5-31-18 conference call were considered approved as presented.

**5. Update: Multi State Rail Car Procurement – Momo Tamaoki, Caltrans:**

Momo Tamaoki provided the following update for inclusion in the minutes:

- *Caltrans is working on the Document Change Requests (DCR) for the cab cars to submit to the NGEN. We are hoping to submit three DCRs soon pending outcomes of upcoming concept meeting with Siemens. Target to submit those DCRs is July.*

- Caltrans/IDOT have conducted Buy America Audit on Siemens (Final Assembly) on May 23 and Televic (communication components) on June 7. No issues were found during the visits, and our SMEs are reviewing the documents that were submitted by the vendors. We are planning to conduct one more audit at Bode (door supplier) in South Carolina on July 31.
- We received the initial drawing tree from Siemens. Our SMEs are going through the list right now to make sure that all drawings they need to see are included.
- Testing and Commissioning workshop is scheduled for July 10 in Chicago. Caltrans and IDOT will be meeting with Amtrak, SCOA and Siemens to clearly and define roles and responsibilities regarding the testing. (i.e. insurance, indemnification, etc.)
- The next design review meetings are scheduled in the week of June 18. The discussion topics include: the final design review of double sliding step, Seats, lighting system, and communication analog system. We will also talk about testing and PRIIA compliance.

Momo requested that Joe Paul (and others) from Amtrak participate in the 7-10-18 Workshop in Chicago. Chairman King asked her to send him an email as a reminder and he will talk to Joe Paul about it.

## 6.

### **Update: Metro-North Dual Mode Locomotive Procurement – Ray Hessinger, NYSDOT:**

Ray Hessinger reported that 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 NYSDOT 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.

## 7.

### **Update: Amtrak Equipment Procurement – Charles King, Amtrak:**

Charlie King reported that the RFP for power has been issued. Charlie noted that he believed that the link has been sent to all members of the NGENC and asked that it be included with the minutes of this call. Steve Hewitt confirmed that he did distribute the link earlier this week along with instructions from Amtrak on how to sign up for the RFP. Steve agreed to resend the information along with today's (6-14-18) DRAFT minutes.

Charlie asked that all participants follow the instructions and obtain the RFP and accompanying documents only in the manner identified. Charlie asked for all due diligence to stay in compliance with Amtrak's OIG.

Charlie added that as manufacturers review what is in it (the RFP) they will find some Far-reaching concepts. This is intentional to generate discussion with the OEMs. There is also an agenda out for OEMs to do a walk through the Amtrak facilities as well. It is an aggressive schedule to get to all the facilities in 4 days.

Charlie also noted that there will be options. The initial order is 75 locomotives with options for another 100.

## 8.

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

Tammy Krause was not available for today's call (6-14-18) but provided the following update for inclusion in the minutes. Steve Hewitt read it into the record:

*The Single Level Specification Revision B.1 was approved by the Executive Board on June 5, 2018. It is now in the process of being compiled. There are currently four DCRs that have been submitted for the Single Level specification that aren't included in Revision B.1. Three of these were submitted after the Revision B.1 was approved by the Technical Subcommittee and one was not resolved prior to the submittal. All four of these DCRs are now completed, two were Accepted and two were Accepted as Amended. These will be the first DCRs in the list for the next revision. Four DCRs have been submitted for the Diesel Electric Locomotive Specification. These have all been completed. One was Accepted as Amended, three were rejected. An updated Technical Documentation List has been created and should be up on the website soon.*

Steve Hewitt added that the updated document list (prepared by Tammy at his request) has now been posted by AASHTO to the NGENC website.

## 9.

**Update – AAR TAG committee on LED Headlights – Tarek Omar, FRA:**

Tarek Omar reported the tests were finished during the first week in May and shared with the AAR technical committee. There was a conference call a week ago. Tarek agreed to share the report with the NGEC's Technical subcommittee. He will provide it to Steve Hewitt following today's call. (6-1-18). Tarek agreed to discuss comments received on the 7-12-18 NGEC Technical subcommittee call.

**10. Update: University of Nebraska High Speed Wireless Study – Hamid Sharif:**

Hamid Sharif gave a brief overview of the project, which is to study wireless technology in freight and passenger trains – including 4G and 5G for higher speed wireless. He noted that he gave a presentation to the NGEC's Electronics on Trains Working Group.

The intent is to have a complete simulation tool from technology to technology 4G and 5G and to provide a tool for different scenarios.

**11. Other Issues:**

With no other business forthcoming for today's call, Charlie King adjourned the meeting at 3:25pm Eastern.

**Next Call: 6-28-2018 – 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.*

*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.*

No update for 6-14-18

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 potential 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.*

No update for 6-14-18

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 NGEC Annual Meeting on 2-23-18. The presentation is available at [www.ngec305.org](http://www.ngec305.org)

On 5-17-18, Melissa reported that there were no new updates on these items.

No update for 6-14-18

Ongoing

**Requesting Background educational document:** The new updated two-pager was released on 2-23-18 and is available electronically or by hard copy. For hard copies contact Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com) with the number requested and an address to send them to. As of 6-14-18, Steve has distributed a total of 465 copies (electronic and hard copies).

**Maintaining Industry Participation List: Status:** There are currently **246** 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:**

The final report was completed on 5-10-18 and has been shared with the AAR Technical committee members. There was a conference call a week ago. Tarek Omar agreed to share the report with the NGEC's Technical subcommittee. He will provide it to Steve Hewitt following today's call. (6-14-18). Tarek agreed to discuss comments received on the 7-12-18 NGEC Technical subcommittee call.

Next update: 7-12-18

**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 (6-14-18).

**Charger Locomotive Update** – next update will take place when appropriate.

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

*The Single Level Specification Revision B.1 was approved by the Executive Board on June 5, 2018. It is now in the process of being compiled. There are currently four DCRs that have been submitted for the Single Level specification that aren't included in Revision B.1. Three of these were submitted after the Revision B.1 was approved by the Technical Subcommittee and one was not resolved prior to the submittal. All four of these DCRs are now completed, two were Accepted and two were Accepted as Amended. These will be the first DCRs in the list for the next revision. Four DCRs have been submitted for the Diesel Electric Locomotive Specification. These have all been completed. One was Accepted as Amended, three were rejected. An updated Technical Documentation List has been created and should be up on the website soon.*

Steve Hewitt added that the updated document list (prepared by Tammy at his request) has now been posted by AASHTO to the NGEC website.

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Next update 7-12-18

**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:**

On 6-14-18, Hamid Sharif gave a brief overview of the project which is to study wireless technology in freight and passenger trains – including 4G and 5G for higher speed wireless. He noted that he gave a presentation to the NGEC's Electronics on Trains Working Group.

The intent is to have a complete simulation tool from technology to technology 4G and 5G and to provide a tool for different scenarios.

**Next update: 7-12-18**

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

**Amtrak Equipment Procurement Update:**

On 6-14-18, Chairman King reported the RFP for power has been issued (6-1-18). The link has been sent to all members of the NGEC on 6-11-18 and will be sent again along with the minutes of this call by Steve Hewitt along with instructions from Amtrak on how to sign up for the RFP.

Charlie asked that all participants follow the instructions and obtain the RFP and accompanying documents only in the manner identified. Charlie asked for all due diligence to stay in compliance with Amtrak's OIG.

Charlie also noted that there will be options. The initial order is 75 locomotives with options for another 100.

An RFI for cars will also be going out – no date provided for that as of yet.

**Next call: 6-14-18**

**Call in number is:**

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

**ATTACHMENTS**



The NGEC will provide national leadership in standardization, acquisition, financing and management of passenger rail equipment.

**PRIIA Section 305 Tech Sub Committee Meeting**

**June 14, 2018**

The agenda for the meeting is below:

- |  |               |
|--|---------------|
| 1. Roll Call   | Steve Hewitt  |
| 2. Review Meeting Agenda                                     | Charles King  |
| 3. Review Action Items                                       | Steve Hewitt  |
| 4. Approve Minutes from 5-31-18                              | Charles King  |
| 5. Update: Multi-State Rail Car Procurement                  | Momo Tamaoki  |
| 6. Update: Metro-North Dual Mode Locomotive Procurement      | Ray Hessinger |
| 7. Update: Amtrak Equipment Procurement                      | Charles King  |
| 8. Document Control Update                                   | Tammy Krause  |
| 9. Update: AAR TAG Committee on LED Headlights               | Tarek Omar    |
| 10. Update: University of Nebraska High-Speed Wireless Study | Hamid Sharif  |
| 11. Other issues   | All           |
| 12. Review this meeting:                                     | Steve Hewitt  |
| a) Decisions   |               |
| b) New Action Items  |               |

***Technical Sub Committee Conference Call Meeting:  
Thursday 6-14-18 / 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 -6-28-18 at 3:00pm Eastern***