

# SECTION 305 TECH SUB COMM

MINUTES

OCTOBER 3, 2019 3:00PM EASTERN

CONFERENCE CALL

<b>FACILITATOR</b>	<i>Charlie King, Chair, NGENC Technical Subcommittee</i>
<b>ATTENDEES</b>	<b>Core Team Members:</b> <i>Charlie King, Jeff Gordon, Allan Paul, Momo Tamaoki, Rich Stegner for Jennifer Bastian, Eric Curtit, Mike Jenkins, Marci Petterson, Michael Burshtin, Duncan Copland, Mike Kraft, Curtis McDowell, Tammy Krause, Steve Hewitt, Hamid Sharif-Kashani</i> <b>Industry Members:</b> <i>Richard Curtis, Paul Jamieson, Richard Stegner, Joe Kenas, James Michel, Dick Bruss, Jack Madden, Paul Arnone, Josh Coran, Donald Sandala</i>
<b>ABSENTEES</b>	<i>George Hull, Phil Meraz, Jason Biggs, Ray Hessinger, Charlie Poltenson, John Bell, Jeff Schultz, Andrew Wood, Melissa Shurland, Mike Murray, Brian Marquis, Larry Salci, David Brabb,</i>

## DISCUSSION/DECISIONS MADE

**1.**

Chairman King, Amtrak, called today's meeting to order and asked Steve Hewitt to call the roll.

After calling the roll, Steve Hewitt confirmed the presence of a quorum.

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

Status of action items that were not to be specifically covered on the agenda:

**Maintaining Industry Participation List:** Currently, there are 209 registered industry participants.

**Requesting Backgrounder educational document:**

The educational (two-pager) document was released at the Annual Meeting on 2-22-19 and is available in hard copy or electronically. To date, (10-3-19) 265 hard copies and 355 electronic copies have been distributed.

Contact Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com). If hard copy, let Steve know where to send them and how many.

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

**ECP Project:**

*The test committee met on May 29, 2019 with some minor edits requested to the final FRA report. The report will be submitted by APTA under docket no. FRA-2015-0078. The report will be made available to the NGENC after APTA submittal. The revenue service demonstration resulted in 1,039,740 ECP fleet miles and 2,126,747 Emulation (BP operation) fleet miles. The total mileage for ECP and emulation was 3,166,541 fleet miles. A total of five incidents were reported the revenue service demonstration. Two incidents were related to electronic hardware, there were no software incidents and three incidents related to training which occurred early in the ECP revenue service demonstration. The hardware incidents have been properly investigated and resolved. The APTA PRESS standards for the emulation 26C configuration and ECP configuration were approved and will be available on the APTA standard website. The equipment provided by New York Air Brake (Knorr) and Wabtec were approved under this project. Draft regulatory language has been prepared and provided to the FRA.*

*Amtrak will continue the revenue service demonstration.*

*In addition to developing the Passenger ECP system, an electronic valve replacement for the 26C service portion was developed.*

*The test committee and APTA PRESS Mechanical technical working group appreciates the support provided by the NGENC. This project would not have been possible without the dedication of Amtrak, APTA, NYAB and Wabtec personnel, and the support of FRA observers.*

*Please advise if you have any questions.*

On 7-11-19, Paul Jamieson reported that all reviews are done, and the report is in the hands of APTA to package the report. Paul has requested that APTA let him know the anticipated date of completion. Once the report is made available, Paul will provide it to Steve Hewitt for distribution to the NGEC members.

Nothing new to report on 10-3-19.

**4. Approval of the Minutes from 8-22-19 – Charlie King, Amtrak:**

On a motion offered by Eric Curtit, MODOT, and seconded by Momo Tamaoki, Caltrans, the minutes from 8-22-19 were approved as presented.

**5. Update: Multi-State Railcar Procurement as of 10-3-19 - Momo Tamaoki, Caltrans:**

Momo Tamaoki, Caltrans, provided the following update for inclusion in the minutes (10-3-19):

*All FDR System Level and related submittal approvals for the standard coach are at a Conditional Approval level or greater. The IDOT galley mock-up review is occurring October 2-3, 2019. IDR system reviews for the IDOT café car occurred week of September 2. Action items for the Cab Car PDRs are complete and the Cab Car Brake System IDR occurred on September 4 in Sacramento.*

*The first 30 carshells are in production at Siemens Sacramento Facility. Bike rack and stairwell linings are now installed on Carshell #1. Carshell #2 is completing static testing. Carshell #3 has undergone carshell complete inspection and is beginning static testing. Carshells 4 and 5 remain in production with work including: seats, tables, HVAC ducting, toilet modules and wiring. The remaining carshells are in various stages of component installation, welding, integration, painting or storage.*

*The FAI process continues and most system-level FAIs are complete. The FRA Sample Car Inspection occurred on September 18<sup>th</sup> and the first two cars are being prepared for shipment to TTCI. The overall car FAI will be scheduled for early November. A functional wheelchair lift demonstration will occur at Ricon on October 15.*

**6. Update: Amtrak Equipment Procurement – Charlie King, Amtrak:**

On the Acela 21:

There is photo evidence of a 9-car trainset with one power car. The second power car is expected this week and Trainset 1 will proceed for testing at TTCI. Trainset 2 will be tested on the NEC.

On the Charger locomotive:

The process continues to move forward with the Amtrak/OEM relationship growing. On track for delivery in Spring 2021.

On the Trainset procurement:

This procurement remains on track for submission of bids in November.

On the procurement for Amtrak Yard and Maintenance of Way Engines:

This effort is to replace the yard and maintenance of way engines in and around the NEC. It is moving forward with the intent being to replace all of the yard engines, some of which are up to 60 years old, with better equipment – tier compliant and HEP. Bids from this procurement are due in during this month (October). If not enough responses, more time may be provided.

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

Ray Hessinger was unavailable - No update was provided – this item is tabled until the next call – 10-17-19.

**8.**

**Update: Electronics on Trains Working Group – David Brabb:**

David Brabb was not on today's call (10-3-19), and no report was provided. This item was tabled until the next call (10-17-19).

**9.**

**Update: University of Nebraska High Speed Wireless Study – Hamid Sharif-Kashani:**

Hamid Sharif-Kashani reported that they have been working on their own set up for 5G High-Speed Wireless communication. They designed their own set-up – came up with specifications for 5G and tested it in the lab. The tests were very positive. The next step is to take it to the field for testing. This testing will begin in the parking lot and extend eventually to working with UP.

Overall, the 5G hardware is working well and they are following their communication protocol and are ready for field testing. Hamid will provide a report on the field testing on the next scheduled update for the technical subcommittee (10-31-19).

For further details please contact Hamid via email at: [hamidsharif@unl.edu](mailto:hamidsharif@unl.edu)

**10.**

**Update: AAR TAG Committee on LED Headlights – Phase 3 – Tarek Omar, FRA:**

Tarek Omar was unavailable – this item was tabled until the next call (10-17-19)

**11.**

**Document Control Update – Tammy Krause, NGEN DCM:**

Tammy Krause provided the following update for inclusion in the minutes (10-3-19):

*The next revision of the Train Set Specification has been submitted to the Executive Board for Approval. The executive board has convened the specification review board and requested Larry Salci to review the specification. Larry will confirm that the changes to the specification meet the requirements document. This review is ongoing. After it is completed the review board will meet and if approved, the spec will be submitted to the Executive Board for approval. That is my update!*

In response to the Chair's question as to a timeline for completion of the Review Panel Report and Executive Board consideration, Steve Hewitt noted that the last timeline provided by Larry Salci indicated that the intent was to have the Report complete and ready for Executive Board consideration on its 10-22-19 call.

**13.**

**Other Issues:**

With no further business forthcoming for today's call, Charlie King adjourned the meeting at 3:20PM Eastern.

**Next Call: 10-17-2019– 3:00pm Eastern**

**Decisions and Action Items**

**Updating ECP Standards** This is an ongoing item which the Technical subcommittee is tracking:

**"ECP Project:**

*The test committee met on May 29, 2019 with some minor edits requested to the final FRA report. The report will be submitted by APTA under docket no. FRA-2015-0078. The report will be made available to the NGEN after APTA submittal. The revenue service demonstration resulted in 1,039,74 ECP fleet miles and 2,126,747 Emulation (BP operation) fleet miles. The total mileage for ECP and emulation was 3,166,541 fleet miles. A total of five incidents were reported the revenue service demonstration. Two incidents were related to electronic hardware, there were no software incidents and three incidents related to training which occurred early in the ECP revenue service demonstration. The hardware incidents have been properly investigated and resolved. The APTA PRESS standards for the emulation 26C configuration and ECP configuration were approved and will be available on the APTA standard website. The equipment provided by New York Air Brake (Knorr) and Wabtec were approved under this project. Draft regulatory language has been prepared and provided to the FRA.*

*Amtrak will continue the revenue service demonstration.*

*In addition to developing the Passenger ECP system, an electronic valve replacement for the 26C service portion was developed.*

*The test committee and APTA PRESS Mechanical technical working group appreciates the support provided by the NGEC. This project would not have been possible without the dedication of Amtrak, APTA, NYAB and Wabtec personnel, and the support of FRA observers. "*

On 7-11-19, Paul Jamieson reported that all reviews are done, and the report is in the hands of APTA to package the report. Paul has requested that APTA let him know the anticipated date of completion. Once the report is made available, Paul will provide it to Steve Hewitt for distribution to the NGEC members.

Nothing new to report on 8-22-19

**Requesting Backgrounder educational document:**

The educational (two-pager) document was released at the Annual Meeting on 2-22-19 and is available in hard copy or electronically. To date, (10-3-19) 265 hard copies and 355 electronic copies have been distributed.

Contact Steve Hewitt at [shewitt109@aol.com](mailto:shewitt109@aol.com). If hard copy, let Steve know where to send them and how many.

**Maintaining Industry Participation List: Status:** There are currently 209 industry participation members.

**AAR TAG Committee on LED Headlights Phase 3:**

On 8-8-19, Tarek Omar reported that the report has been provided to EnSCO to finalize the test protocol with TTCI to be ready to begin the testing.

Next update 10-17-19

**PRIIA Multi-State Procurement Update:**

**Multi-State Car Procurement - Caltrans (Lead State):** Progress reports from the lead state will be provided on each subcommittee call.

See agenda item 5 for 10-3-19 update

**Document Control Update as of 10-3-19:**

*The next revision of the Train Set Specification has been submitted to the Executive Board for Approval. The executive board has convened the specification review board and requested Larry Salci to review the specification. Larry will confirm that the changes to the specification meet the requirements document. This review is ongoing. After it is completed the review board will meet and if approved, the spec will be submitted to the Executive Board for approval. That is my update!*

**Electronics on Trains Working Group as of 8-22-19:**

*The electronics subcommittee met had a call on Tuesday, August 20th. We internally edited 305-919 DTL hardware specification and I submitted it to the group for review and comment to be returned to me no later than September 6th. Our next call is planned for September 17<sup>th</sup>.*

Next update: 10-17-19

**DEF-UREA Update:**

On 11-15-18, Art Peterson provided the following brief update on DEF-UREA implementation:

*The DEF update is very straight-forward – there have been no issues in the supply of DEF at any of the locations on the Midwest "Hub" network. It is all working very smoothly.*

Next update – as appropriate.

**University of Nebraska High Speed wireless study:**

On 10-3-19, Hamid Sharif-Kashani reported that they have been working on their own set up for 5G High-Speed Wireless communication. They designed their own set-up – came up with specifications for 5G and tested it in the lab. The tests were very positive. The next step is to take it to the field for testing. This testing will begin in the parking lot and extend eventually to working with UP.

Overall, the 5G hardware is working well and they are following their communication protocol and are ready for field testing. Hamid will provide a report on the field testing on the next scheduled update for the technical subcommittee ((10-31-19).

For further details please contact Hamid via email at: [hamidsharif@unl.edu](mailto:hamidsharif@unl.edu)

Next Update – 10-31-19

**Metro North Dual Mode Locomotive Procurement as of 8-8-19:**

Metro-North continues to evaluate the vendor proposals received is going through that process.

No update was provided on 10-3-19

Next update – 10-17-19

**Amtrak Equipment Procurement as of 10-3-19:**

On the Acela 21:

There is photo evidence of a 9-car trainset with one power car. The second power car is expected this week and Trainset 1 will proceed for testing at TTC. Trainset 2 will be tested on the NEC.

On the Charger locomotive:

The process continues to move forward with the Amtrak/OEM relationship growing. On track for delivery in Spring 2021.

On the Trainset procurement:

This procurement remains on track for bids to come in in November.

On the procurement for Amtrak Yard and Maintenance of Way Engines:

This effort is to replace the yard and maintenance of way engines in and around the NEC. It is moving forward with the intent being to replace all of the yard engines, some of which are up to 60 years old, with better equipment – tier compliant and HEP. Bids from this procurement are due in during this month (October). If not enough responses, more time may be provided.

Next Update 10-31-19

**Next call: 10-17-19**

**Call in number is:**

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

**ATTACHMENTS**



***Our Vision: The NGEC will provide national leadership in standardization, acquisition, and management of passenger rail equipment.***

**PRIIA Section 305 Tech Sub Committee Meeting**

**October 3, 2019**

The agenda for the meeting is below:

- |   |                      |
|---|----------------------|
| 1. Roll Call  | Steve Hewitt         |
| 2. Review Meeting Agenda                                    | Charlie King         |
| 3. Review Action Items                                      | Steve Hewitt         |
| 4. Approve Minutes from 8-22-19                             | Charlie King         |
| 5. Update: Multi-State Rail Car Procurement                 | Momo Tamaoki         |
| 6. Update: Amtrak Equipment Procurement                     | Charlie King         |
| 7. Update: Metro-North Dual Mode Locomotive Procurement     | Ray Hessinger        |
| 8. Update: Electronics on Trains Working Group              | David Brabb          |
| 9. Update: University of Nebraska High Speed Wireless Study | Hamid Sharif-Kashani |
| 10. AAR TAG Committee on LED Headlights Phase 3:            | Tarek Omar           |
| 11. Update: Document Control Management                     | Tammy Krause         |
| 12. Other issues  | All                  |
| 13. Review this meeting:                                    | Steve Hewitt         |
| a) Decisions  |                      |
| b) New Action Items   |                      |

***Technical Sub Committee Conference Call Meeting:  
Thursday 10-3-19 / 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 –10-17-19 at 3:00pm Eastern***