

SECTION 305 TECH SUB COMM

MINUTES

JULY 12, 2018

3:00PM EASTERN

CONFERENCE CALL

FACILITATOR	<i>Charles King, Chair, NGENC Technical Subcommittee</i>
ATTENDEES	Core Team Members: Charles King, Jeff Gordon, Art Peterson as proxy for Momo Tamaoki and for Jennifer Bastian, Allan Paul, Phil Meraz, Jeff Schultz for Marci Petterson, Duncan Copland, Tarek Omar, Melissa Shurland, Tammy Krause, Dave "Emeritus" Warner, Steve Hewitt, Industry Members: Hamid Sharif Kashani, Scott Witt, Rich Stegner, Al Bieber, Tom LaMano, Jonathan Michel, Jack Madden, James Michel
ABSENTEES	<i>George Hull, Marci Petterson, Curtis McDowell, Charlie Poltenson, Ray Hessinger, Jason Biggs, John Bell, Chris Witt, Sal DeAngelo, Brian Marquis, Anand Prabhakaran, Larry Salci, Momo Tamaoki, Jennifer Bastian</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

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 **247** 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 for copies; if you desire hard copies, please tell Steve how many you need and provide a mailing address.

As of 7-12-18, 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.ngenc305.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 – 7-12-18.

Dave Warner asked if Melissa had been told by the access Board why they have not issued the proposed rule initially announced to be released in May.

Melissa noted she has reached out to the Access Board and has not yet received a response. As soon as she receives it she will

provide it to Steve Hewitt for dissemination.

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:

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 as of 7-12-18

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 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 7-12-18

Ongoing

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.

There is nothing new to report today – 7-12-18.

Next update due 7-26-18

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 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.

Nothing new to report as of 7-12-18

4. Approval of the Minutes from 6-28-18 – Charlie King, Amtrak:

With a quorum having been confirmed, Steve Hewitt, on behalf of Charlie King (who was in transit but on the phone), called for a motion to approve the minutes from the 6-28-18 conference call:

A motion to approve was offered by Allan Paul, NCDOT, and was seconded by Art Peterson for IDOT. With no objections or exceptions forthcoming, the minutes from the 6-28-18 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:

- *Caltrans is working on the Document Change Requests (DCR) for the cab cars to submit to the NGEC. We are still on schedule to submit those DCRs is July. Two are already completed.*
- *Caltrans and SCOA are working on the WiFi change order for Caltrans cars. Coach 1 B cars (End cars) will include the same six Wi-Fi antennas and cable arrangements 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 the test plan to share with Amtrak 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.*

6. Update: Charger Locomotive Procurement – Art Peterson for IDOT:

- 1) *Failure Review Board and Warranty issue meetings continue to be held involving all Charger customers*
- 2) *Dialogue with the OEM regarding FMIs continues*
- 3) *PTC Survey work was done on the locomotives assigned out of Chicago during June and July and will be done on the five locomotives stored in Pueblo in August*

7. Update: Amtrak Equipment Procurement – Charles King, Amtrak:

Charlie King reported that not much has changed since the last 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.

8. Document Control Update – Tammy Krause, NGEC DCM:

The Single Level Car Specification 305-003 Revision B.1 has been completed by the Technical writer and the cover sheet has been submitted to NGEC Chairman Eric Curtit. Once he has signed the sheet, Tammy will provide the completed Specification to Steve Hewitt for distribution upon request and to AASHTO so that it can be included on the web site list of documents.

9. Status: Recruiting Members for the Interiors Working Group – Duncan Copland, Amtrak:

Duncan Copland reported that since the call went out for volunteers to participate on the Interiors Working Group, he has received 4 new volunteers and will add them to the working group roster. They will participate on the next call of the group.

10. Update: AAR TAG Committee on Headlights – Tarek Omar, FRA:

Tarek Omar, FRA, provided an update on the TAG Committee on Headlights and submitted the following for inclusion in the minutes of this call (7-12-18)

Fleming/Page Engineering reviewed [1][2]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 the 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.

11.

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

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.

12.

Other Issues:

As a point of information, Dave Warner, reported that, on 7-11-18, SEPTA became the second railroad in the country to operate ACS 64s.

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

Next Call: 7-26-2018 – 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 7-12-18

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 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

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

No update for 7-12-18

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.

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 with the number requested and an address to send them to. As of 7-12-18, 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:

See agenda item 10 for a complete update.

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 (7-12-18).

Charger Locomotive Update – See agenda item 7 for the latest update. (7-12-18)

Document Control Update as of 6-14-18:

The Single Level Car Specification 305-003 Revision B.1 has been completed by the Technical writer and the cover sheet has been submitted to NGEAC Chairman Eric Curtit. Once he has signed the sheet, Tammy will provide the completed Specification to Steve Hewitt for distribution upon request and to AASHTO so that it can be included on the web site list of documents.

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 – 7-26-18.

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

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 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.

No update provided on 7-12-18

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.

Next call: 7-26-18

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

July 12, 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 6-28-18 | Charles King |
| 5. Update: Multi-State Rail Car Procurement | Momo Tamaoki |
| 6. Update: Locomotive Procurement | Art Peterson |
| 7. Update: Amtrak Equipment Procurement | Charles King |
| 8. Update: Document Control | Tammy Krause |
| 9. Status: Recruiting Members for the Interiors working Group | Duncan Copland |
| 10. Update: AAR Tag Committee on LED Headlights | Tarek Omar |
| 11. Update: University of Nebraska High Speed Wireless Study | Hamid Sharif |
| 12. Other issues | All |
| 13. Review this meeting: | Steve Hewitt |
| a) Decisions | |
| b) New Action Items | |

***Technical Sub Committee Conference Call Meeting:
Thursday 7-12-18 / 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 –7-26-18 at 3:00pm Eastern***