

SECTION 305 TECH SUB COMM

MINUTES

AUGUST 9, 2018 3:00PM EASTERN

CONFERENCE CALL

FACILITATOR	<i>Charles King, Chair, NGENC Technical Subcommittee</i>
ATTENDEES	Core Team Members: <i>Charlie King, Jeff Gordon, Allan Paul, Phil Meraz, Mike Jenkins, Eric Curtit, Eric Curtit also as proxy for Jennifer Bastian, Ray Hessinger, Michael Burshtin, Tarek Omar, Mike Murray, Duncan Copland, Dave "Emeritus" Warner, Steve Hewitt, Industry Members:</i> <i>Hamid Sharif Kashani, Jack Madden, Al Bieber, Dick Bruss, Richard Stegner, Steve Morrison</i>
ABSENTEES	<i>Marci Petterson, Charlie Poltenson, Jason Biggs, Jeff Schultz, Curtis McDowell, Brian Marquis, Larry Salci, Tom Sisler, Art Peterson, Anand Prabhakaran, 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 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.

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.

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 8-9-18.

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

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

Nothing new to report as of 8-9-18.

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 8-9-18

Ongoing

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 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.

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.

3. Approval of the Minutes from 7-26-18 – Charlie King, Amtrak:

With a quorum having been confirmed, Charlie King called for a motion to approve the minutes from the 7-26-18 conference call:

A motion to approve was offered by Allan Paul, NCDOT, and was seconded by Phil Meraz, Iowa DOT. With no objections or exceptions forthcoming, the minutes from the 7-26-18 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:

- *All submitted standard coach DCRs have been approved by the NGENC Technical Subcommittee*
- *Three critical cab car DCRs were submitted to NGENC on 7/30. The three are: Car Length Over Couplers, Carbody/Cab Construction and Cab Car Floor Height Transition*
- *Final Design Review Sessions for standard coach will conclude week (August 7) in Chicago with FDR for H-Coupler, IDOT Diaphragm, IDOT End Doors, Interiors, Wheelchair Lift and Trap Door.*
- *Dynamic testing discussions occurred August 7 & 8 in Chicago with a technical discussion session on 8/7 including Amtrak and FRA and a commercial & insurance discussion on 8/8. Many action items were identified, and Caltrans, IDOT, Amtrak and FRA will continue ongoing discussions to resolve all issues identified at the meetings.*
- *Preliminary Design Review for the Café car commences week of September 10 in Sacramento with a full PDR session for the Galley Equipment. Following will be an overview of the adapted systems changes from standard coach to café*

coach.

- System-level FDR approvals of the Carbody & Clearance, Water & Waste, HVAC and Brakes have been provided to SCOA/Siemens with Caltrans submittals to FRA and Amtrak to follow in the coming weeks. Approvals of additional systems on the standard coach are expected soon.
- The first 5 carshells are in production at Siemens Sacramento Facility with carshell #1 in the final stages of integration and welding. The expansion of the Sacramento production facility is in process and on target for a November completion.

6.

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

Ray Hessinger reported that Metro North presented its specification to the MTA Board at the end of July and they are now on track for release of the RFP in the next couple of weeks. The technical specification is complete and locked down – no changes at this time.

7.

Update: Amtrak Equipment Procurement - Charlie King:

Charlie King provided an update/overview of the RFP and RFI for Amtrak equipment:

The RFP for Power and the RFI for passenger rail cars process continues.

As for the RFP for Power, Charlie provided an overview of some of the areas where the Amtrak specification differs from that of PRIIA:

Among those differences cited were:

Amtrak's addresses third rail pick up, catenary and dual cab, and multiple access. Amtrak calls for speeds up to 110 mph whereas PRIIA is at 125 mph. The fuel tank for Amtrak will be 2200 – PRIIA 18-2200. Amtrak calls for a service life of 30 years vs 25 for PRIIA.

(these are only a few of the items mentioned on the call by Charlie)

Please contact Charlie King at Charles.king@amtrak.com for more information or questions regarding the RFP, and a more comprehensive description of the primary differences between what Amtrak's spec is calling for and what PRIIA's spec calls for.

Questions continue to come in on the RFP. There has been discussion of Amtrak partnering with Metro North as it proceeds with its procurement of Dual Mode Locomotives. The answer right now is no, but maybe at the end it could happen if successful.

RFI:

Charlie talked about the continued interaction among the states and Amtrak both through the NGEC and its Technical subcommittee and the conduit between Amtrak and the states within SAIPRC. SAIPRC established a state group comprised of state members who are also involved with the NGEC (Ray Hessinger, NYSDOT, Momo Tamaoki, Caltrans, and John Oimoen, IDOT)

The RFI process continues to move forward. Amtrak has met with some of the OEMs and will continue to do so.

Charlie will provide updates as these acquisition efforts go forward. They still have not decided on the aperture – Cars, DMUs Trainsets, or a combination of them all. Ultimately it will depend on the needs of the states. It will be critical to meet the needs of the states over 20 years and this may well mean different types of vehicles.

8.

Document Control Update – Tammy Krause, NGEC DCM:

Tammy Krause was unavailable, but provided the following update for today's call (8-9-18). Steve Hewitt read them into the record:

The Single Level Specification Revision B.1 is listed on the AASHTO NGEC website with a link to request a copy.

Three new DCRs for the Single Level Specification have been received and are currently in process.

9.

Update: Electronics on Trains Working Group – Tom Sisler:

Tom Sisler was unavailable – no update was provided for today (8-9-18).

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

Hamid Sharif Kashani reported that the high-speed wireless study effort continues to build simulators for 5G for high-speed wireless on trains. Among other things, they have added different components to address different geographic areas.

Members of the Technical subcommittee are welcome to contact Hamid to provide input into the study.

The intent is to be done by late September – early October 2018.

**11.
Other Issues:**

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

Next Call: 8-23-2018 – 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.

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

Nothing new to report on 8-9-18

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.

Ongoing

Nothing new to report on 8-9-18

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

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.

Ongoing

Nothing new to report on 8-9-18

Requesting Background educational document: The two-pager educational document is available electronically or by hard copy. Contact Steve Hewitt at shewitt109@aol.com with the number requested and an address to send them to.

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.

PRIIA Multi-State 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 (8-9-18).

Charger Locomotive Update – updates will be provided as warranted.

Document Control Update as of 8-9-18:

The Single Level Specification Revision B.1 is listed on the AASHTO NGEC website with a link to request a copy.

Three new DCRs for the Single Level Specification have been received and are currently in process.

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.

Nothing new to report on 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 the high-speed wireless study effort continues to build simulators for 5G for high-speed wireless on trains. Among other things, they have added different components to address different geographic areas.

Members of the Technical subcommittee are welcome to contact Hamid to provide input into the study.

The intent is to be done by late September – early October 2018.

Next update: 9-6-18

Metro North Dual Mode Locomotive Procurement 8-9-18:

Metro North presented its specification to the MTA Board at the end of July and they are now on track for release of the RFP in the next couple of weeks. The technical specification is complete and locked down – no changes at this time.

Amtrak Equipment Procurement Update:

The RFP for Power and the RFI for passenger cars/trainsets are on the street.

See today's update (8-9-18) under agenda item 7.

Next call: 8-23-18

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

August 9, 2018

The agenda for the meeting is below:

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|---|--------------|
| 1. Roll Call | Steve Hewitt |
| 2. Review Meeting Agenda | Charles King |
| 3. Review Action Items | Steve Hewitt |
| 4. Approve Minutes from 7-26-18 | Charles King |
| 5. Update: Multi-State Rail Car Procurement | Momo Tamaoki |

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| 6. Update: Metro-North Dual Mode Locomotive Procurement | Ray Hessinger |
| 7. Update: Amtrak Equipment Procurement | Charlie King |
| 8. Update: Document Control | Tammy Krause |
| 9. Update: Electronics on Trains Working Group | Tom Sisler |
| 10. Update: University of Nebraska High Speed Wireless Study | Hamid Sharif Kashani |
| 11. Other issues | All |
| 12. Review this meeting: | Steve Hewitt |
| a) Decisions | |
| b) New Action Items | |

***Technical Sub Committee Conference Call Meeting:
Thursday 8-9-18 / 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 -8-23-18 at 3:00pm Eastern***