

SECTION 305 TECH SUB COMM

MINUTES

FEBRUARY 7, 2019 3:00PM EASTERN

CONFERENCE CALL

FACILITATOR	Charles King, Chair, NGENC Technical Subcommittee
ATTENDEES	Core Team Members: Charlie King, Jeff Gordon, Momo Tamaoki, Allan Paul, John Bell for Ray Hessinger, Jeff Schultz for Marci Petterson, Eric Curtit, Jennifer Bastian, Jennifer Bastian as proxy for Jason Biggs, Art Peterson, Curtis McDowell, Tarek Omar, Steve Hewitt, Larry Salci, Tammy Krause, Tom Sisler, Hamid Sharif-Kashani, Industry Members: Richard Curtis, Dick Bruss, Donald Sandala, Richard Stegner, Bill Saddler, Josh Coran, Steve Ojalvo, Jon Mullin, Michael Jensen, Paul Arnone, James Michel, Steve Finnegan, Jack Madden, Kevin Myles, Jonathan Michel, Joe Kenas
ABSENTEES	Ray Hessinger, Phil Meraz, Jason Biggs, Mike Jenkins, Brian Marquis, Duncan Copland, Byron Comati, Bernard Reynolds, Harry Garforth, Anand Prabhakaran, Charlie Poltenson

DISCUSSION/DECISIONS MADE

<p>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, 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.</p>
<p>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 205 registered industry participants. Requesting Backgrounder educational document: Changes to the two-pager educational document were adopted by the NGENC Executive Board on 1-29-19 and have been incorporated into an updated version which will be printed and distributed at the NGENC 2019 Annual Meeting on 2-22-19. After the Annual Meeting, it will be available electronically or in hard copy by sending a request to Steve Hewitt at shewitt109@aol.com. Updating ECP Standards This ongoing item is being tracked by the Technical subcommittee with status updates provided as activities occur. On 1-10-19, Paul Jamieson provided the following update for inclusion in the minutes: <i>The eight APTA PRESS ECP standards have completed the public comment period without any comments being received. The standards will now be subject to the PRESS Policy and Planning Committee review to assure that all the requirements for publication have been satisfied. The standards will be released after the review is completed. Notification will be provided when the standards are available on the APTA website.</i> No update for 2-7-19</p>
<p>Update: AAR TAG Committee on Headlights – Phase 2: On 1-24-19, Eric Sherrock, ENSCO, provided the following update on the LED light testing Phase II. ENSCO is supporting the FRA Office Research, Development and Technology and AAR on this effort. Steve Hewitt read them into the record: <i>Phase 2 focused on subjective static field testing of LED lights that were deemed eligible for consideration following Phase 1 laboratory-based testing. Phase 2 field testing was successfully completed in October at the Monticello Railway Museum in Monticello, IL. Test personnel are in the process of analyzing and documenting the test results. These should be available in Q1 of 2019. FRA is working with AAR to arrange for Phase 3 testing of the locomotive LED lights in early 2019.</i></p>

No update for 2-7-19

4. Approval of the Minutes from 12-13-18 and 1-10-19 and 1-24-19 – Charlie King, Amtrak:

On a motion offered by Eric Curtit, MoDOT, and seconded by Jennifer Bastian, IDOT, the minutes from 12-13-18, 1-10-19 and 1-24-19 were approved as presented.

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

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

Of the three critical Cab Car DCRs, two have been approved by the NGEC subcommittee – Carbody/Cab Construction and Cab Area Floor Height. The pending Car Length Over Couplers DCR has been withdrawn. The Vertical Curve DCR has been approved by the VTI working group and is moving to Technical Subcommittee review and vote. All other DCRs submitted on the project thus far have been approved by the Subcommittee and Executive Committee approval and reporting is in work.

System-level FDR approvals of the Carbody & Clearance, Water & Waste, HVAC, Gap Filler, Digital Communications, Diagnostic System, Double Sliding Step, Accessible Toilet Room, Safety Appliances, Lighting Systems, Semi-Permanent and H-type couplers, Trucks, Exterior Doors, Interior Doors, Gangway and Brakes have been provided to SCOA/Siemens. Actions for Analog Communication System are complete with closure and in queue for concurrence and approval. Caltrans submittals to FRA for Safety Appliance and Carbody are complete and under review. The package containing the Clearance Envelopes have been submitted to Amtrak for review and approval. FDR related CDRLs and other submittals continue through the review and approval process.

The first 12 carshells are in production at Siemens Sacramento Facility and final assembly continues, along with localized water testing on Carshell #1. Carshell #2 has been turned over for final assembly in is in preparation for build. Passivation rework is complete on Carshell #3 and carshell is in storage. Carshell #4 Car shell remains in storage pending scheduling for rework to passivated surfaces. Carshell #5 has completed passivation and is targeted for inspection next week. Carshells 7 through 12 are in various stages of weld and integration. The expansion of the Sacramento production facility is structurally complete and being equipped with cranes and fixtures. Caltrans, IDOT, SCOA and Siemens will meet with FRA Office of Civil Rights on February 20 to present a comprehensive overview of the ADA features of the new coaches. IDOT plans an additional meeting with the Midwest ADA community next week.

The FAI process is underway and FAIs have occurred for the Carshell Complete, Digital Communication System, Lighting System, Couplers, Sanitary System, Sidewall Lining, FRP Panels, Brake System, Interior Doors, Truck Frame, Flooring and heated panel and Battery Charger. Open items are being addressed and the FAIs are revisited for closure by the customer team as needed. FAI for the Low Floor and High Floor Door Panel is to be conducted in February. The HVAC, Full Truck, Sliding Step, Seats, Electrical Cabinet, Windows, Analog Communications and Electrical Switch Cabinet are also scheduled for February. Some dates might be delayed slightly to ensure preparedness and adequate resource coverage.

6. Status Update: Metro-North Dual Mode Locomotive RFP – John Bell for Ray Hessinger, NYSDOT:

John Bell, NYSDOT provided the following update for inclusion in the minutes (2-7-19):

MNR received the phase 1 qualification packages and is currently reviewing to make sure submitters are qualified to actually bid.

7. Update: Amtrak Equipment Procurements – Charlie King, Amtrak:

Charlie King reported that the Locomotive Notice to Proceed went out to Siemens (as previously reported) and for a few months there will not be much to report on as far as delivery schedule, etc. for this procurement.

On the trainset RFP:

Part one of the RFP was issued in January 2019. Part two of the RFP will go out tomorrow and is on the Amtrak public website.

A pre-program conference will take place in Philadelphia with George Hull and some of his team representing Amtrak Mechanical.

On May 1, 2019, vendor proposals are due to Amtrak.

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

Tammy Krause provided the following update for inclusion in today's minutes (2-7-19):

I am happy to report that the last DCR for the single-level trainset was approved by the VTI working group. This is DCR 3-180 and it was sent to the entire TSC earlier this week.

DCR 3-180 is a request to change a requirement in section 1.4.3.3, track geometry. The original specification requires that "The cars shall be capable of negotiating a 1000 ft radius vertical curve (concave or convex), coupled to other equipment, without damage to any portion of the trucks or suspension, coupler, draft gear, air and electrical connections, carbody, diaphragm or truck. The DCR request is to change the 1000ft radius vertical curve to 2000 ft radius vertical curve. Michael Burshtin is going to make some comments about this.

Michael Burshtin, Amtrak, reported that he had spoken to Michael Trosino about the DCR, and he has verified that 2000 feet is the norm and it does clear Amtrak facilities. Neither Michael is sure why or how the 1000 feet came into the spec originally, but 2,000 ft is the correct number and safe for operating.

Charlie King added that this number – 2,000ft is less restrictive than 1,000 feet.

Larry Salci, consultant to the Review Panel reported that the panel met just prior to this call and approved all DCRs including 3-180 (pending Technical subcommittee approval) and noted that if approved today, DCR 3-180 will be included in the report and recommendations from the Review Panel and will be submitted to the NGEN executive Board for its consideration on its 2-12-19 call.

9.**Consideration of approval of DCR-3-180 – Charlie King:**

Charlie King asked if there were any further comments or discussion on DCR 3-180, and, hearing none, called for a motion to approve DCR 3-180.

Allan Paul, NCDOT offered a motion to approve DCR 3-180, and the motion was seconded by Eric Curtit, MoDOT.

Charlie asked for any further discussion or if there was any dissension or objections. Hearing none, Charlie determined that consensus had been achieved and the motion is approved.

Larry Salci will include this DCR in the Review Panel Report and recommendation and it will be sent to the Executive Board in advance of the 2-12-19 conference call.

10.**Update: Electronics on Trains – Tom Sisler:**

Tom Sisler reported that the DRAFT requirements document had been completed and is under review by the working group members for discussion on the next call around the end of this month (February).

Tom referenced the working group's discussion about proceeding with a 305-920 DTL software specification in light of the fact that the FRA/University of Nebraska High Speed wireless study.

Hamid Sharif-Kashani, University of Nebraska, commented that the high-speed wireless study has a basis for the DTL and in some areas it is covered, but it is not clear how "we can have a direct interface" with what the NGEN is doing.

Tom Sisler determined that, at this point his working group will not do any work on the DTL software specification 305-920 on how to use high-speed wireless.

Hamid added that he "would be happy provide model testing in our simulations".

11.**Update: University of Nebraska/FRA High Speed Wireless Study – Hamid Sharif-Kashani:**

Hamid Sharif-Kashani noted that they are conducting a model and simulation high speed data network study that includes wireless.

Hamid reported that the model has been completed and they have been doing testing in the lab. They are now ready to do field testing but got delayed a bit by the government shutdown. He expects the field testing to proceed in the coming weeks and he will show the NGEN Technical subcommittee the results once the testing has occurred.

12.

Final Review: NGENC 2019 Annual Meeting – 2-22-19 Hyatt Regency Capitol Hill Washington, DC – Steve Hewitt:

The current DRAFT agenda and registration list were sent out to all today. The room block has closed. Contact Kamasha Hendrickson at khendrickson@aaashto.org if you still need a room at the Hyatt.

The current registration list shows 66 attendees. If you are not on the list and plan to attend – please send an email to Steve Hewitt at shewitt109@aol.com by Friday 2-8-19. The list for name badges and tent cards is due to AASHTO by COB 2-8-19.

13.

Next Call – 3-7-19

14.

Other Issues:

With no further business forthcoming for today's call, Charlie King adjourned the meeting at 3:26pm Eastern.

Next Call: 3-7-2019– 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 1-10-19, Paul Jamieson provided the following update for inclusion in the minutes:

The eight APTA PRESS ECP standards have completed the public comment period without any comments being received. The standards will now be subject to the PRESS Policy and Planning Committee review to assure that all the requirements for publication have been satisfied. The standards will be released after the review is completed. Notification will be provided with the standards are available on the APTA website.

No new update for 2-7-19

AWG/RVACC Update:

No update on 2-7-19

Requesting Background educational document: Changes to the two-pager educational document were adopted by the NGENC Executive Board on 1-29-19 and have been incorporated into an updated version which will be printed and distributed at the NGENC 2019 Annual Meeting on 2-22-19. After the Annual Meeting, it will be available electronically or in hard copy by sending a request to Steve Hewitt at shewitt109@aol.com.

Maintaining Industry Participation List: Status: There are currently 206 industry participation members.

AAR TAG Committee on LED Headlights:

On 1-24-19, Eric Sherrock, ENSCO, provided the following update on the LED light testing Phase II. ENSCO is supporting the FRA Office Research, Development and Technology and AAR on this effort. Steve Hewitt read them into the record:

Phase 2 focused on subjective static field testing of LED lights that were deemed eligible for consideration following Phase 1 laboratory-based testing. Phase 2 field testing was successfully completed in October at the Monticello Railway Museum in Monticello, IL. Test personnel are in the process of analyzing and documenting the test results. These should be available in Q1 of 2019. FRA is working with AAR to arrange for Phase 3 testing of the locomotive LED lights in early 2019.

No update provided on 2-7-19

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 2-7-19 update

Document Control Update – Action items as of 2-7-19:

The last DCR for the single-level trainset was approved by the VTI working group. This is DCR3-180 and it was sent to the entire TSC earlier this week and to the Review Panel as well.

DCR 3-180 is a request to change a requirement in section 1.4.3.3, track geometry. The original specification requires that "The cars shall be capable of negotiating a 1000 ft radius vertical curve (concave or convex), coupled to other equipment, without damage to any portion of the trucks or suspension, coupler, draft gear, air and electrical connections, carbody, diaphragm or truck. The DCR request is to change the 1000ft radius vertical curve to 2000 ft radius vertical curve. Michael Burshtin is going to make some comments about this.

Larry Salci, consultant to the Review Panel reported that the panel met just prior to this call and approved all DCRs including 3-180 (pending Technical subcommittee approval) and noted that if approved today, DCR 3-180 will be included in the report and recommendations from the Review Panel and will be submitted to the NGEN Executive Board for its consideration on its 2-12-19 call.

Following the Document Control Update on 2-7-19, DCR 3-180 was approved by the Technical subcommittee with consensus having been achieved. The DCR will be included in the Review Panel Report for 305-003 Revision B.2. The Report and will be submitted to the Executive Board for its consideration on 2-12-19.

Electronics on Trains Working Group – 2-7-19:

The DRAFT requirements document had been completed and is under review by the working group members for discussion on the next call around the end of this month (February).

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 – 2-7-19:

The model has been completed and they have been doing testing in the lab. They are now ready to do field testing but got delayed a bit by the government shutdown. He expects the field testing to proceed in the coming weeks and he will show the NGEN Technical subcommittee the results once the testing has occurred.

Metro North Dual Mode Locomotive Procurement as of 2-7-19:

MNR received the phase 1 qualification packages and is currently reviewing to make sure submitters are qualified to actually bid.

Amtrak Equipment Procurement 2-7-19:

Charlie King reported that the Locomotive Notice to Proceed went out to Siemens (as previously reported) and for a few months there will not be much to report on as far as delivery schedule, etc. for this procurement.

On the trainset RFP:

Part one of the RFP was issued in January 2019. Part two of the RFP will go out tomorrow and is on the Amtrak public website.

A pre-program conference will take place in Philadelphia with George Hull and some of his team representing Amtrak Mechanical.

On May 1, 2019, vendor proposals are due to Amtrak.

10. NGEN 2019 Annual Meeting – 2-22-19 Hyatt Regency Capitol Hill Washington, DC – as of 2-7-19:

The current DRAFT agenda and up to date registration list were sent out to all NGEN members today (2-7-19). The room block has

closed. Contact Kamasha Hendrickson, AASHTO, at khendrickson@ashto.org if you still need a room at the Hyatt.

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Next call: 3-7-19

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

February 7, 2019

Updated Agenda

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 12-13-18, 1-10-19, 1-24-19 | Charles King |
| 5. Update: Multi-State Rail Car Procurement | Momo Tamaoki |
| 6. Status Update: Metro-North Dual Mode Locomotive RFP | Ray Hessinger |
| 7. Update: Amtrak Equipment Procurement | Charlie King |
| 8. Update: Document Control | Tammy Krause |
| 9. Consideration of approval of DCR 3-180 | Charlie King |
| 10. Update: Electronics on Trains Working Group | Tom Sisler |
| 11. Update: Iniversity of Nebraska/FRA - High Speed Wireless Study | Hamid Sharif-Kashani |
| 12. Final Review: NGEC 2019 Annual Meeting – 2-22-19 Washington, DC | Steve Hewitt |
| 13. Scheduling Next Call | Steve Hewitt |

14. Other issues

All

15. Review this meeting:

Steve Hewitt

- a) Decisions
- b) New Action Items

***Technical Sub Committee Conference Call Meeting:
Thursday 2-7-19 / 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 -3-7-19 at 3:00pm Eastern***