INTERMODAL MAINTENANCE & REPAIR COMMITTEE MEETING

WEDNESDAY, SEPTEMBER 18, 2019 – 1:30 TO 3:30 P.M.
RENAISSANCE HOTEL, THE PIKE ROOM
LONG BEACH, CA
CALL TO ORDER
Please Consider

• Turn Cell Phones to Vibrate or Off
• No Side Bar Conversations – Please
• When Speaking
  • Use a Microphone
  • Identify Yourself and Company Affiliation
Safety Briefing

• Current Location:
  Renaissance Hotel
  Pike Room
  111 E Ocean Blvd, Long Beach, CA

• Hotel Security:
  o Located behind Pike Ballroom. Dial “0” from any Hotel Phone

• 911 Assignment:
  o Hotel Calls 911. Call Security, Dial “0” from any Hotel Phone
  o Primary?
  o Secondary?

• AED Assignment:
  o Contact Hotel Security. Dial “0” from any Hotel Phone
  o Primary?
  o Secondary?

• First Aid Kit Assignment:
  o Contact Hotel Security. Dial “0” from any Hotel Phone
  o Primary?
  o Secondary?
Safety Briefing – Continued

• CPR Assignments:
  o Primary?
  o Secondary?

• Evacuation Assignments:
  o Primary?
  o Secondary?
  o Evacuation Route:
    • Primary: Exit via the double doors into the Pike Ballroom Hallway, which leads outdoors.
    • Secondary: Exit via Starbucks.
  o Rally point:
    • Promenade and 1st Street at the Bike Park, caddy corner to the hotel.
  o Chairs pushed in
  o Avoid tripping hazards

• Fire extinguishers:
  o Total 3 – one in each section of Pike. One at North Wall and 2 at West Wall.

• Weather Forecast:

• Drills Planned:
Call to Order

• Antitrust Guidelines
• Determination of Quorum
• Sign-In Sheet
• Approval of May 2, 2019 Meeting Minutes
Intermodal Equipment Reference Library Task Force

Shelley Sheagley, Aurora Parts & Accessories
September 18th 2019
Long Beach, CA
Task Force Objectives

• Goal
  • Identify current and ongoing needs among the intermodal community for service, warranty, and recall information and establish a centralized library to share the information.

• Objectives
  • Identify the information needed, collect the necessary documents, establish a central location to store the media, create a link on the IANA website to share the information, and establish procedures for ongoing maintenance of the library.
Task Force Members

- Shelley Sheagley, Aurora Parts & Accessories (leader)
- Bruce Chamblee, Dorsey Tire Company
- Cliff Creech, Phillips Industries
- David Esposito, Direct ChassisLink
- Kurt Komers, Martec International
- Pratap Lingam, Kwik Specialty Trailer Manufacturer
- Vinny LoRusso, Meritor Heavy Vehicle Systems
- David Miller, Jr., Container Maintenance Corporation /Marine Repair Services, Inc.

- Mike Murray, CIMC Intermodal Equipment
- Kent Musick, Pratt Industries
- Tony Noles, ConGlobal Industries
- Kamal Patel, Norfolk Southern
- Mark Pulver, ConGlobal Industries
- Eugene Robinett, Hutchens Industries
- Richard Searle, TRAC Intermodal
- Kyle Shroyer, Peterson Manufacturing Company
- Marty Summers, CCM (committee liaison)
- Tom Slattery, Flexi-Van
Task Force Status and Timeline

• Q1-2019
  • Identified types of service, warranty, & recall information needed.
  • Drafted letter and contacted equipment and parts manufacturers for support.

• Q2-2019 to Current
  • Continuing outreach to collect library documents.
  • Reviewing submissions and providing feedback to manufacturers.
  • Documents to be delivered by the end of the year.
Examples of Library Submissions

• Warranty Policies and Filing Instructions
Examples Cont.

• Installation Instructions
Examples Cont.

- User’s Guides
Examples Cont.

• Tech Tips and Product Guides
Thank for your Contributions!

Hutchens Industries

PHILLIPS

PM

SAF Holland

Truck-Lite

WEBB
Next Steps

• Q4-2019 to Q1-2020
  • Continue to collect documents.
  • Create and organize reference library archive database storage.
  • Propose submission process and procedures for ongoing maintenance.

• We need your submissions!
Questions & Discussion

Your thoughts and comments are welcome
Telematics for M&R Applications Task Force

Gary Cornelius, TCW, Inc.
September 18th 2019
Long Beach, CA
Task Force Objectives

• To investigate and identify what equipment telematics options exist and how they can be used to improve maintenance and repair practices with diverse intermodal chassis.

• Test telematics platforms determined to be beneficial in maintenance and repair.
  • Determine a baseline ROI on the results of testing.
  • Provide feedback to the value and benefits determined through the process.

• The end goal is to reduce out-of-service violations on intermodal chassis, especially in the areas of brakes, lights and tires, through the use of telematics.
Status Update

• Formed four working groups.
  • Cliff Creech – Lights and Electrical
  • Donna Davison – Current Pilots/Usages
  • Tyler Lippincott – Tires
  • Ed McQuillan – Brakes and Wheel Ends
• Working groups have had conference calls.
• Conducting data collection and outreach.
• Identified all current pilot projects.
# Working Group Members

<table>
<thead>
<tr>
<th>Mr. Gary W. Cornelius (Task Force Leader) TCW, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brakes/Wheel Ends</strong></td>
</tr>
<tr>
<td>Mr. Edward McQuillan (leader)</td>
</tr>
<tr>
<td>Mr. Cliff W. Creech</td>
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<tr>
<td>Mr. Brett Hugo</td>
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<tr>
<td>Mr. David L. Green</td>
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<tr>
<td>Mr. Jeremy Laskos</td>
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<tr>
<td>Mr. Thomas McQueeney</td>
</tr>
<tr>
<td>Mr. Ed Smith</td>
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<tr>
<td><strong>Tires</strong></td>
</tr>
<tr>
<td>Mr. Tyler Lippincott (leader)</td>
</tr>
<tr>
<td>Mr. John W. Allen</td>
</tr>
<tr>
<td>Mr. Cliff W. Creech</td>
</tr>
<tr>
<td>Mr. Jeffrey Dudenhefer</td>
</tr>
<tr>
<td>Mr. Jonathan Gravell</td>
</tr>
<tr>
<td><strong>Lights/Electrical</strong></td>
</tr>
<tr>
<td>Mr. Mark Jagow</td>
</tr>
<tr>
<td>Mr. Andrew Knouse</td>
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<tr>
<td>Mr. Jason Letchford</td>
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<tr>
<td>Mr. Chris MacDonald</td>
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<td>Mr. Kenneth Gilbert Veit</td>
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Findings and Next Steps

• Focus on available brakes, tires, and lights telematics products.
• Each working group will provide a list of the products determined thus far to be available in their area of focus for telematics use in M&R.
  • Will identify functionality and benefits.
• Work with companies owning/controlling equipment to develop data flow from the pilots.
• Data will be collected and aggregated.
  • Determine a baseline ROI.
Questions & Discussion

Your thoughts and comments are welcome
Mechanics Training Working Group

William Fluke, Columbia Group
September 18th 2019
Long Beach, CA
Deliverables

• **Deliverable 1**: Provide recommendations to the Intermodal Chassis Mechanics Training Task Force relating to Training Guidelines for Mechanics.

• **Deliverable 2**: Develop Competency Documents for each of the 53 Intermodal Recommended Practices.

• **Deliverable 3**: Develop Task Lists for each of the 53 Competency Documents.

• **Deliverable 4**: Develop a Question Matrix.
Working Group Members

- William Fluke, Columbia Group
- Jose Canales, Integrated Industries
- Dave Esposito, DCLI
- Tim Moore, CSX Intermodal Terminals, Inc.
- Marty Summers, CCM
- Ed Smith, Webb Wheel Products
Status Update

• The Mechanics Task Force has been dissolved. The Mechanics Training Working Group reports to the M&R Committee and will meet on an as needed basis.

• The Working Group has had several conference calls and meetings to discuss training guidelines.

• The Working Group is engaging with potential training providers to promote the development of training materials consistent with the Chassis Guide/IRPs.
## Training Guidelines: New Mechanics

Discussed two options, no agreement

<table>
<thead>
<tr>
<th>Module</th>
<th>Duration of Contact Time</th>
<th>Classroom</th>
<th>Hands On</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction, Securement &amp; Safety</td>
<td>20 hours</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>Section 900: Welding/Fabrication</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>3</td>
<td>Section 600: Frames</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>4</td>
<td>Section 700: Suspensions</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>5</td>
<td>Section 500: Couplers and Hitches</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Section 200: Electrical</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>7</td>
<td>Section 300: Tires and Wheels</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>8</td>
<td>Section 400: Axles</td>
<td>40 hours</td>
<td>15</td>
</tr>
<tr>
<td>9</td>
<td>Section 800: Brakes</td>
<td>160 hours</td>
<td>40</td>
</tr>
<tr>
<td>10</td>
<td>Section 100: General Procedures and Auxiliary Equipment</td>
<td>20 hours</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>480 hours</strong></td>
<td><strong>165 (34.3%)</strong></td>
<td><strong>315 (65.7%)</strong></td>
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</tbody>
</table>

<table>
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<tr>
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<th>Duration of Contact Time</th>
<th>Classroom</th>
<th>Hands On</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sections 100, 200, 900 (1 of 3)</td>
<td>72 hours</td>
<td>24</td>
</tr>
<tr>
<td>2</td>
<td>Sections 300, 400, 500, 900 (2 of 3)</td>
<td>84 hours</td>
<td>28</td>
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<tr>
<td>3</td>
<td>Sections 600, 700</td>
<td>84 hours</td>
<td>28</td>
</tr>
<tr>
<td>4</td>
<td>Sections 800, 900 (3 of 3)</td>
<td>84 hours</td>
<td>28</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>324 hours</strong></td>
<td><strong>108 (33.3%)</strong></td>
<td><strong>216 (66.6%)</strong></td>
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</table>
Training Guidelines: Existing Mechanics

• Existing mechanics (with less than 1 year of training/experience) would have a “Test out” option to take and pass the knowledge assessment.

• Each mechanic would also perform a one-time practical application of each procedure that would be observed/approved to be successful by a qualified inspector/mechanic.

• If they fail any portion(s) of the knowledge assessment, they would need to take the appropriate training course on the failed section(s) then re-test on the knowledge assessment, and re-perform the practical.
Next Steps

• Recommend submission of an exemption application to FMCSA.
• Continue to work/collaborate with potential training providers.
• Working Group to meet as needed on a going forward basis.
Exemption Application

• Submit Exemption Request to FMCSA under 49 CFR, Subpart C of Part 381.
• Request chassis inspectors/mechanics to be exempted from requirements for:
  • 1 year Training/Experience requirement to be a qualified Inspector under 396.19(a)(3)(ii).
  • 1 year Training/Experience requirement to be a qualified Brake Inspector under 396.25(d)(3)(ii).
• Exemption to apply to inspectors/mechanics who successfully complete a training program based on the IANA IRPs and IANA Chassis Inspection Guide and also is consistent with the Training Working Group deliverables that have been approved by M&R Committee.
  • Competency Documents, Task List, Question Matrix.
  • Training Guidelines to be performance-based (e.g. no explicit hours) and assessment required.
Call for
Motion to Approve
Questions & Discussion

Your thoughts and comments are welcome
IRP Guide Maintenance Working Group

Ed Smith, Webb Wheel Products, Inc.
September 18th 2019
Long Beach, CA
IRP Guide Maintenance Working Group Objectives

• Scope is to maintain the IRP’s and Chassis Guide:
  • Review and maintain all contents of IRP manual
  • Ensure information stays current and up to date.
  • Members are a cross section of appropriate stakeholders
  • IRP Reviews/Discussion will be held at the two IANA meetings
    • Conference calls as needed
  • Comments & suggestions will be solicited from the M&R Committee ahead of the meetings in an open forum
  • Will develop a phased review schedule
  • Review will be completed during a 3-5-year time span of all sections
  • New products will not be added until there is industry-wide adoption and only if it requires a new maintenance practice
<table>
<thead>
<tr>
<th>Individual</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ed Smith, Webb Wheel Products (leader)</strong></td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Craig R. Butler, FlexiVan</td>
<td>IEP Technical Expert</td>
</tr>
<tr>
<td>Cliff W. Creech, Phillips Industries</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>David Esposito, DCLI</td>
<td>IEP Tire &amp; Maintenance Expert</td>
</tr>
<tr>
<td>Bill Fluke, Columbia Group</td>
<td>Industry Expert</td>
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<tr>
<td>David L. Green, CCM</td>
<td>IEP Parts Expert</td>
</tr>
<tr>
<td>Mack D. Gregory, Peterson Manufacturing Company</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Brett Hugo, STEMCO</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Andrew Knouse, Norfolk Southern Corporation</td>
<td>IEP Rail Expert</td>
</tr>
<tr>
<td>Thomas McQueeney, TSE Brakes</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Steve Miller, Pressure Systems International</td>
<td>IEP Parts Expert</td>
</tr>
<tr>
<td>Brian J. Moynihan, JOST International</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Rob Nissen, SAF Holland</td>
<td>Industry Expert</td>
</tr>
<tr>
<td>Collin J. A. Parker, Hutchens Industries</td>
<td>Industry Expert</td>
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<td>Tom Slattery, FlexiVan</td>
<td>IEP Maintenance Expert</td>
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<td>Marty Summers, CCM</td>
<td>Industry Expert</td>
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</table>
Requested reviews & additions to the IRP’s and Guide

• IANA hosts a request for review form on its web site for all parties (open to public)
• Requests (with accompanying documentation) will be forwarded to the working group leader for review.
• Requests will be reviewed by the members assigned to the applicable section
• Requester may be asked to present the issue at a meeting or on a conference call
• Any recommended changes will need to be approved by the full M&R Committee
• All approved changes will be made to the digital version as needed to stay current
• Notifications will be sent out to subscribers when changes are made
• Printed guides will be reprinted and updated every 5 years
Requested Review: IRP C.501

• Looking at the dimensions on downward and upward bows in the pickup plate, they seem to be a bit restrictive. Do we know where these measurements came from?
  • These were secured from SAE.
  • In review we decided that no changes were needed as this is a recommended practice and not setting a standard.
  • The IEP can set their own set of measurements.

• Review complete
Requested Modification: IRP C.305

• Radial Tire – Puncture Repair
  • Content was previously approved by Committee, Technical Writer did not include in original package of IRPs.
  • Needs several minor modifications to make consistent with remainder of IRPs.
  • Will be added into Guide at end of Section 300 (new IRP C.305) once complete.
  • Will be distributed to subscribers.

• Work/Editing in process.
Request for review

• Review form has been posted on the IANA website.
• No additional requests have been received at this time.

Questions & Discussion

Your thoughts and comments are welcome
Road Service Working Group

Christopher O’Hea, C & K Trucking, LLC
September 18th 2019
Long Beach, CA
Working Group Objectives & Process

• Define the scope of the problem.
• Our focus was to gather sample data by surveying a small set of stakeholders to try and identify the common issues that occur during a roadside repair.
• Provide the information to the M&R Committee for its consideration and potential next steps.
• Does IANA have a role?
Working Group Members

- Christopher O’Hea, C & K Trucking, LLC (Leader)
- Eric Anderson, Milestone Equipment Holdings
- Paul C. Burgoyne, Vantage Solutions, LLC
- Kevin Clarke, Hub Group
- Brandon Cook, Downtime Fleet Management
- Carl Francis, CCM
- Stefanie M. Fyfe, ContainerPort Group
- Ralph Iacono, Jr., Roadrunner Towing and Truck Service
- Rob W. Rowe, II, B-H Transfer Co.
- Peter Anthony Shevlino, Flexivan
- Jason Slegers, DCLI
- Mark Smith, TRAC Interstar
- Cindy Verrecchia, Bondar Insurance
Status Update

• Finalized and distributed stakeholder survey.
• Received 20 completed surveys from Motor Carriers, Road Service Providers, and Intermodal Equipment Providers.
• Analyzed results.
Stakeholder Survey Results

• “Please rank in order of severity, your biggest issue/problem in regards to Roadside Repairs?”

1. Vendor Quality
2. Rule Clarity
3. Accurate Breakdown/Repair Information
4. Why Made Clarity
5. Vendor Communication
6. Timely Response
7. Vendor Density
8. Photo Support
9. Unrequested Repairs Made
10. Repair Quality
11. Lack of Technology
12. Safety
13. Vendor Performance Rating
Next Steps

• Recommend survey be distributed to the entire M&R Committee.
  • Potentially could disseminate to the IANA Membership upon approval from the M&R Committee.

• Questions for Committee discussion:
  • What are the envisioned end results?
  • Does IANA have a role, and, if so, what is it?
Questions & Discussion

Your thoughts and comments are welcome
Good Order Chassis Working Group

Carl Francis, Consolidated Chassis Management, LLC
September 18th 2019
Long Beach, CA
Working Group Objectives

• Review the outcomes (discussions and worksheets) from the May 2019 Business Meeting Roundtable Discussion: The Good Order Chassis: Who’s Responsible?

• Discuss potential areas of common interest for working to advance solutions.

• Consider prior work of IANA Task Forces such as the Road Ready and DVIR Task Forces.

• Provide recommendations to M&R Committee for any action(s).
# Working Group Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization Name</th>
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</thead>
<tbody>
<tr>
<td>Carl Francis (leader)</td>
<td>CCM</td>
</tr>
<tr>
<td>Eric Anderson</td>
<td>Milestone Equipment Holdings</td>
</tr>
<tr>
<td>Bryan Blalock</td>
<td>Charleston Blast and Paint</td>
</tr>
<tr>
<td>Darryl Gilbert</td>
<td>Union Pacific Railroad Company</td>
</tr>
<tr>
<td>Carl Heavener</td>
<td>Universal Intermodal Services, Inc.</td>
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<tr>
<td>Steve Kemp</td>
<td>South Carolina Ports Authority</td>
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<tr>
<td>David Libatique</td>
<td>Port of Los Angeles</td>
</tr>
<tr>
<td>Vincent J. Marino</td>
<td>Container Maintenance Corporation</td>
</tr>
<tr>
<td>Edward McQuillan</td>
<td>Ashland Avenue Partners</td>
</tr>
<tr>
<td>John E. Perouty</td>
<td>H &amp; M International Transportation, Inc.</td>
</tr>
<tr>
<td>Rob Rowe</td>
<td>B-H Transfer Co.</td>
</tr>
<tr>
<td>Ronald Ruisz</td>
<td>Intermodal Mechanic Training Institute (IMTI)</td>
</tr>
<tr>
<td>Rob Stephenson</td>
<td>TCW, Inc.</td>
</tr>
<tr>
<td>James Woods</td>
<td>CCM</td>
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</tbody>
</table>
Status Update

• 14 Members
  ➢ Industry sectors currently represented:
    • IEP, M&R Vendor, Rail Roads, Water Terminals, Motor Carriers, Industry Trainers
  ➢ Industry sectors unrepresented:
    • BCO’s, Terminal Operators, AGS Providers

• 9 Meetings to date (8 calls, 1 in person)
• Reviewed several tech reporting solutions
• Our working group will continue to meet every other Friday at 11am Eastern
Status Update

• Chicago meeting roundtable
  • Summarized worksheets and discussion of results
  • Prioritized issues to consider
  • Missed items identified

• Tangible items identified to address
  • Preventing damage before it happens
  • Consider recommended practices for reporting OOS equipment
Tech Solutions to Reporting
Next Steps

• Continue to conduct research and outreach to stakeholders
• Develop and provide recommendations to the M&R Committee
  • Will complete work Q1 2020
Questions & Discussion

Your thoughts and comments are welcome
NEW BUSINESS
New Business

• Tire Issues

• Open Choice discussion from Operations Committee

• Open Discussion on M&R Issues