



Railroad Safety Advisory Committee



Electronic Device Distraction Working Group Update

to

The 46th Railroad Safety Advisory Committee

**April 26, 2012
Washington, DC**



Railroad Safety Advisory Committee



EDD Agenda

- **Items Requiring Report**
 - **Model Education Presentation**
 - **Model Awareness Posters**
 - **Public Service Announcement**
 - **Peer to Peer Coaching**
 - **Grants - Notice Of Funding Availability**
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RSAC Task Statement: Preventing Railroad Employee Distractions Caused by Personal Electronic Devices



- RSAC Task No: 11-01 May 20, 2011
- Purpose: To prescribe mitigation strategies, programs and processes for governing the use of personal electronic devices which could cause distractions to railroad employees engaged in safety critical activities.



ISSUES REQUIRING REPORT



- What criteria should be used to determine the most effective programs/methods of dissemination and compliance?
 - What are the desired outcomes/objectives of these programs/methods?
 - Identify parameters of both prohibited and permissive use of personal electronic devices.
 - Who will develop the program to achieve the outcomes/objectives?
 - Who will institute and control the program?
 - How will the compliance and program efficacy be evaluated and monitored?
 - How much will this program cost?
 - When will all safety critical railroad employees be educated/trained through this program?
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What criteria should be used to determine the most effective methods of dissemination and compliance?



- Simplicity
 - Effectiveness
 - Use of peer coaching
 - Cost
 - Time to complete
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What are the desired outcomes and objectives of the programs/methods?



- Educate employees in the rules and regulations describing EDD prohibitions
 - Make employees aware of the dangers associated with electronic device misuse
 - Coach employees (by peers) to recognize and exhibit safe behavior with regards to the use of electronic devices
 - Change the culture to make misuse of personal electronic devices unacceptable
 - Eliminate or reduce accidents/incidents caused by electronic device distraction
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Identify parameters of both prohibited and permissive use of personal electronic devices.



- The Task Force developed a matrix (next slide) of each railroad's rules, but was not able to devise a concise, simple list of universally applicable rules regarding acceptable use that could be published for industry wide guidance.
 - Some members of the Task Force believe there is no safety distinction between the dangers of using an electronic device for business purposes vs. other purposes.
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Matrix of Rules

| Electronic Distraction Matrix - Summary of Current Practices | | | | | | | | | | | | | | |
|--|--|--|--|--|-------------------|--|--|--|-------------|-------------------|----------------|---|---|------------|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| 1 | 24-Dec-11 | | | | | | | | | | | | | |
| 2 | All Employees | | Amtrak | BNSF | CN | CP | CSX | KCS | LIRR | MNCW | METRA | NS | SEPTA | UP |
| 3 | Aboard Controlling Locomotive or Crew Performing Safety Sensitive Work | § 220.305 Use of personal electronic devices. A railroad operating employee must have each personal electronic device turned off with any earpiece removed from the ear— | Use is prohibited NORAC Rule 716 | Device(s) must be turned off and stowed out of sight | Use is prohibited | Device(s) must also be stored out of sight | Device(s) must also be stored out of sight | Device(s) must be turned off and stowed out of sight | prohibited. | Use is Prohibited | Prohibited | Also, devices must be stored out of sight. | Use is prohibited NORAC Rule 716 | Prohibited |
| 4 | | § 220.305 Use of personal electronic devices. A railroad operating employee must have each personal electronic device turned off with any earpiece removed from the ear— (b) When any member of the crew is (1) On the ground, or (2) Riding rolling equipment during a | Use is prohibited NORAC Rule 716 | Device(s) must be turned off and stowed out of sight | Use is prohibited | Device(s) must also be stored out of sight | Device(s) must also be stored out of sight | Device(s) must be turned off and stowed out of sight | Prohibited. | Use is Prohibited | Prohibited | Prohibited | Use is prohibited NORAC Rule 716 | Prohibited |
| 5 | | Use While Stationary - Not at controls, no member of crew on the ground, riding equipment or assisting in preparation of train for movement. | NORAC Rule 716 Authorized for voice communication under certain circumstances ⁴¹ . | Voice, text/email only | Use is prohibited | Voice only | Voice Only | Voice Only | prohibited | Use is Prohibited | Prohibited | Voice Only | NORAC Rule 716 Authorized for voice communication under certain | Voice only |
| 6 | | | | | | | | | | | | | | |
| 7 | Aboard Trailing Unit - Deadheading | While Moving | NORAC Rule 716 Prohibited in the controlling locomotive or cab; authorized elsewhere if use doesn't interfere with safety. | Any device permitted | YES | Permitted | Device(s) must also be stored out of sight | mitted for voice c | Prohibited | Use is Prohibited | Not Prohibited | Prohibited | NORAC Rule 716 Prohibited in the controlling locomotive or cab; authorized elsewhere if | Voice only |
| 8 | | While Stationary | NORAC Rule 716 Prohibited in the controlling locomotive or cab; authorized elsewhere if use doesn't interfere with safety. | Any device permitted | YES | Permitted | Voice Only | mitted for voice c | Prohibited | Use is Prohibited | Not Prohibited | Allowed w/same restrictions when on controlling locomotive. | NORAC Rule 716 Prohibited in the controlling locomotive or cab; authorized elsewhere if | Voice only |
| 9 | On Rolling Equipment | § 220.305 Use of personal electronic devices. A railroad operating employee must have each personal electronic device turned off with any earpiece removed from the | | Device(s) must be turned off and | YES | Prohibited | Device(s) must also be stored | Device(s) must be turned off | Prohibited | Use is | Prohibited | Prohibited | Prohibited | Prohibited |



Who will develop the programs to achieve the outcomes/objectives?



- The Working Group developed a model educational presentation that illustrates the dangers of distraction.
 - The presentation may be modified by stakeholders and used to make their members aware of the dangers.
 - The Working Group selected the slogan:
“One Text or Call Could Wreck It All”
to be used on all outreach material.
 - The Working Group developed model posters which can be used to raise awareness.
 - The posters can be also modified by stakeholders.
 - A Public Service Announcement has been developed and is proposed to be delivered by the FRA Administrator via video.
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Who will institute and control the program?



- Awareness, Education, and Coaching are most effective when delivered by a peer to a peer
 - Where possible this should be the preferred method of delivery
 - Model Slide Presentation, Posters and PSA are available for use by all stakeholders
 - Management and FRA will enforce rules and regulations as usual, but will also participate in training, coaching and leading
 - Several railroads have initiated Peer to Peer programs aimed at Elec. Device Distraction with promising results.
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How will the compliance and program efficacy be evaluated and monitored?



- The Task Force has developed a Logic Model that will guide the evaluation effort.
- The Task Force has also developed survey questions which will provide qualitative measures of the programs' success.
- OMB approval will be needed to conduct large scale surveys.
- FRA Office of Safety will monitor EDD related accident rates and rule violations



EDD RSAC Logic Model



RESOURCES/ INPUTS

FRA
RAIL
MANAGEMENT
RAIL LABOR

ACTIVITIES

ANALYZE PROBLEM
DEFINE MESSAGE
DEVELOP: POSTERS,
MODEL SLIDE
PRESENTATION, PSA
MESSAGE
BASELINE MEASURE
VIA SURVEY
AWARENESS AND
EDUCATION
DISTRIBUTION
PEER TO PEER
COACHING

OUTPUTS

RR EMPLOYEES
HAVE BETTER
UNDERSTAND-
ING OF DANGER
INVOLVED
WITH EDD
BETTER COMMUNI-
CATION
BETWEEN
CREW
MEMBERS,
MANAGEMENT
& FRA

OUTCOMES

REDUCED
NUMBER OF
ACCIDENTS
FEWER FRA
VIOLATIONS
FEWER OPS
TEST
VIOLATIONS

IMPACTS

REDUCED
USAGE OF CELL
PHONES/
ELECTRONIC
DEVICES
SHIFT IN
CULTURAL
ACCEPTABILITY



When will all safety critical railroad employees be educated/trained through this program?



- Awareness and Education ~1 year
- Peer to Peer projects will vary based on the existing infrastructure.
- Some railroads have already developed and implemented programs which will probably show results at some locations within 6 months to a year.
- Other railroads that are just developing Peer to Peer programs will probably take 1 to 3 years to build programs that have an impact.



Recommendation to full RSAC



- Accept approach that includes
 - Outreach program focused on message “One Text or Call Could Wreck it All”
 - Model presentation
 - Model poster
 - Public Service Announcement by Administrator
 - Evaluation including survey
 - Peer to Peer Coaching programs
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Electronic Device Distraction



QUESTIONS?