Road Safety Engineering

Harry Cullen/Forbes Vigors

National Roads Authority

National Roads Authority – Standards Section Training

April 2015
Topics for Discussion

• NRA HD15 – Network Safety Ranking
• NRA HD16 – Temporary Safety Measures Inspection
• NRA HD17 – Road Safety Inspections
• NRA HD18 – Road Safety Impact Assessment
• NRA HD19 – Road Safety Audit
• IAN Towns and Villages
• Minor Amendments to the Standard
• Access to Collision Data
  • Collision Data relating to National Roads can be requested from infosafety@nra.ie
  • Data only available if working on National Road Schemes.
  • NRA Safety Data Sharing Agreement to be signed in advance
# NRA Collision Data

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## Map Data

- **Case ID 10102167**: Minor on Fri, 15/07/2011. Vehicle 1 was a Vehicle 2 was a Pedestrian.
- **Case ID 10102150**: Minor on Wed, 07/09/2011. Vehicle 1 was a Vehicle 2 was a Pedestrian.
- **Case ID 10102160**: Minor on Mon, 24/10/2011. Vehicle 1 was a Vehicle 2 was a Pedestrian.
- **Case ID 10102127**: Minor on Sun, 06/10/2013. Vehicle 1 was a Vehicle 2 was a Pedestrian.
- **Case ID 10102176**: Fatal on Wed, 28/08/2013. Vehicle 1 was a Vehicle 2 was a Pedestrian.


**NRA HD16**

**Temporary Safety Measures**

- **Notification Process**
  
  “2.7 All Road Works that include temporary Safety Measures on National Roads shall be registered on the NRA temporary Safety Measures web based database prior to implementation. To register for access to this website, email your request to tsmi@nra.ie.”

- **Frequency of Inspections**

<table>
<thead>
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<th>Duration of Road Works</th>
<th>% of sites to be inspected per annum</th>
<th>Frequency of Inspection</th>
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<td>Exceeding 1 year in duration</td>
<td>100% of sites to be inspected</td>
<td>Quarterly</td>
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<td>6 months to 1 year duration</td>
<td>100% of sites to be inspected</td>
<td>Two Inspections</td>
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<td>1 month to 6 months in duration</td>
<td>50% of sites to be inspected</td>
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<td>Greater than 1 day, less than 1 month</td>
<td>10% to 20% of sites to be inspected</td>
<td>Single Inspection</td>
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<td>1 day in duration</td>
<td>Random</td>
<td>Single Inspection</td>
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NRA HD16 Portal

Register to upload

Email tsmi@nra.ie
• Minor Amendments to the Standard
• The list of information required has been revised
• All data has to be captured in a spatial video format.
NRA HD18 Road Safety Impact Assessments

• Some of the definitions have been revised.

• SI 472/2012 needs some minor changes.

• Can't publish HD 18/15 or HA 18/15 until the SI has been amended.
• **Revised Definitions**
  
  **Road Scheme.** A scheme designed in accordance with NRA DMRB which results in new road construction or **permanent** change to the existing road or roadside layout.

  **Development Scheme.** A scheme which results in a change to the road or roadside layout that is initiated and/or executed for commercial or private development.
• Scope of Audit
  • Adverse bearing on Road Safety
  • Identify potential SAFETY hazards
  • Recommendations must be feasible
NRA HD 19 Road Safety Audit

- Stages of Audit
  - Stage F, Stage 1, Stage 2, Stage 3
  - Stage 4
Designers Response on Feedback Form

- The Designer shall consider the Audit Report and prepare a Designer Response to each of the recommendations, using the Feedback Form.

- The response shall **state clearly** whether the recommendations are accepted, rejected, or whether an alternative recommendation is proposed.
NRA IAN for Towns and Villages

- Developing an IAN
- Traffic Calming
  - For Rural Towns and Villages on National Roads Only
  - Transition from 100km/h to 60km/h
  - Transition from 60km/h to Urban Centre
- Pedestrian Crossing advice
Thank you for listening

Forbes Vigors
Project Manager Road Safety
National Roads Authority

National Roads Authority – Standards Section Training
April 2015