

## **SCOTTISH MINISTERS' REQUIREMENTS**

### **SCHEDULE 8 PART 3**

#### **ROAD SAFETY AND ACCIDENT INVESTIGATION AND PREVENTION**

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#### **ROAD SAFETY AND ACCIDENT INVESTIGATION AND PREVENTION**

##### **1. GENERAL**

###### **1.1 Introduction**

- 1.1.1 The Operating Company shall support the Director in delivering the Scottish Government's *Road Safety Framework 2009* which includes Transport Scotland's *Strategic Road Safety Plan 2007*. In undertaking its obligations in relation to this Schedule, the Operating Company shall liaise closely and cooperate with the Director and other stakeholders, including the Police, local authorities, Emergency Services and safety camera partnerships.
- 1.1.2 The Operating Company shall appoint a Road Safety Manager in accordance with the requirements of Schedule 5 Part 4 who shall be responsible for the management of all road safety and accident investigation and prevention matters.

##### **2. ROUTE SAFETY FILES**

- 2.1.1 The Director shall provide Route Safety Files to the Operating Company no later than 30 days prior to the Commencement of Service Date. An example of the contents of Route Safety Files is provided at Annex 8.3/A of this Part. The Operating Company shall maintain a Route Safety File for each Trunk Road Route to provide a knowledge base to inform prioritisation of accident investigation and prevention works. The Operating Company shall use Route Safety Files to:

- (i) inform future road safety strategies,
- (ii) enable each Route to be considered against the performance of other Routes, and
- (iii) allow road safety targets to be set for that Route.

The Operating Company shall provide a fully updated file to the Director annually on 15 November.

- 2.1.2 Subject to an Order, the Road Safety Manager shall assist the Director in the continuing development and arrangement of Route Safety Groups to consider the performance of individual Trunk Road routes and encourage:

- (i) increased safety and more innovation,
- (ii) development of joint road safety initiatives nationally and in the local area, and
- (iii) a proactive approach to safety engineering.

The Road Safety Manager shall organise a Route Safety Group meeting in each Annual Period, for each Trunk Road Route, at which the relevant Route Safety File shall be presented to stakeholders for discussion.

##### **3. OPERATING COMPANY'S ANNUAL ROAD SAFETY REVIEW**

- 3.1.1 The Director shall provide the Operating Company in June each year with a list of accident cluster sites and higher than average accident rate sections within the Unit

that warrant investigation. The lists will consider accidents in the period 1 January to 31 December in the preceding three years and will include sites or sections investigated or treated previously. The list provided is not exhaustive and the Operating Company shall develop liaison procedures with the Police, local authorities and safety camera partnerships to identify and discuss additional sites or sections that may warrant further investigation.

3.1.2 The Operating Company shall investigate the sites and sections listed and provide an Annual Road Safety Review Report to the Director by 15 August. The report shall detail the reasons for selecting, or not selecting, sites and sections for further investigation and shall highlight where sites and sections have already been treated or were previously considered unsuitable for further investigation or treatment.

3.1.3 The Annual Road Safety Review Report shall develop a programme of road safety initiatives which will deliver:

- (i) safer road design,
- (ii) improved speed management,
- (iii) better provision for vulnerable road users, and
- (iv) reduce the frequency and severity of personal injury accidents,

to contribute to achieving the Scottish Governments' casualty reduction targets and shall consider both accident and risk reduction and may include:

- (v) accident black spot treatment,
- (vi) Route improvements, and
- (vii) Prioritised Mass Action Programmes to address known accident types that have been evidenced through the lists of accidents or identified within the Route Safety Files.

3.1.4 The Annual Road Safety Review Report shall demonstrate how the sites identified for further investigation will support the Scottish Government in delivering the 2020 casualty reduction targets detailed in the Scottish Government's *Road Safety Framework 2009*.

3.1.5 The Annual Road Safety Review Report shall consider the performance of all road safety improvements during the three years after their implementation. This shall include details of before and after accident data (including the 36 month after accident data when it becomes available) and assessments of the relative performance of the different mitigation measures implemented in previous years. This shall include those road safety improvements implemented by the previous operating company.

3.1.6 The Annual Road Safety Review Report shall demonstrate how road safety Schemes from the previous year contribute to the casualty reduction targets set in the Scottish Government's *Road Safety Framework 2009* and detail any innovative measures implemented in the previous year.

3.1.7 Based on the findings of the Annual Road Safety Review Report, the Operating Company shall submit to the Director a draft one year programme of Schemes as described in Schedule 4 Part 1.

#### **4. ACCIDENT INVESTIGATION AND PREVENTION**

- 4.1.1 Subject to an Order, the Operating Company shall provide an Accident Investigation and Prevention Report for the Director's consent.

The Operating Company's Accident Investigation and Prevention Report shall set out the findings of the nature and cause of accidents and propose remedial measures to address identified causes of accidents. The proposed measures shall be backed by relevant evidence showing an expected accident reduction factor for that type of mitigation measure. The Operating Company shall also propose risk reduction measures to improve the overall safety performance of the network. Risk reduction measures shall be qualified with evidence to demonstrate value for money.

In the case of a Route, the Operating Company shall develop a Route Accident Reduction Plan in discussion and consultation with all affected parties via relevant Route Safety Groups.

- 4.1.2 The Accident Investigation and Prevention Report shall provide sufficient detail including plans, stick diagrams, tables, additional accident data (the Operating Company shall make arrangements with the appropriate Police forces to gain access to plain text information), accident causation factors, estimated costs, collision reduction factors for mitigation measures and an estimated first year rate of return, in a form which enables the Director to consider and review the proposals.

The Accident investigation and Prevention Report shall be prefaced by a Project Plan, a template for which is provided at Annex 8.3/B of this Part.

The Operating Company shall submit the Accident Investigation and Prevention Report to the Director within 25 Working Days of receipt of the Order, or within such other timescale as specified by the Director within any such Order.

#### **5. DETAIL DESIGN AND CONSTRUCTION OF ROAD SAFETY SCHEMES**

- 5.1.1 The Director will consider and review the Accident Investigation and Prevention Report. Should the Director decide to proceed with a Scheme, the Director will:

- (i) issue an Order to the Operating Company to undertake the detailed Design, or,
- (ii) issue an Order to the Operating Company to undertake construction, or
- (iii) require the Operating Company to submit draft one year and three year programmes of Schemes as described in Schedule 4 Part 1.



This is Annex 8.3/A to Schedule 8 Part 3 referred to in the foregoing Agreement between Scottish Ministers and Scotland TranServ being a Joint Venture comprising of Balfour Beatty Civil Engineering Limited and Mouchel Limited.

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#### **ROAD SAFETY AND ACCIDENT INVESTIGATION AND PREVENTION**

#### **ANNEX 8.3/A – Example Route Safety File Contents**





## **SCOTTISH MINISTERS' REQUIREMENTS**

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#### **ROAD SAFETY AND ACCIDENT INVESTIGATION AND PREVENTION**

##### **ANNEX 8.3/A – Example Route Safety File Contents**

###### **Preface**

###### **Route information**

- Description of route
- Character of road
- Key towns/settlements and junctions
- Type of pedestrians that utilise the road
- Type of road
- Capacity issues
- Location of ATC
- Traffic flow (AADF)
- Traffic flows and composition
- Speed limits and safety camera sites
- Road Condition (SCRIM/deflectograph information)
- Structures
- Bend assessment
- Overtaking provisions
- Lay-by provision
- Junction provision
- Junction density
- EuroRAP Rating
- Inspections
- Environmental issues
- Future developments and land use changes

###### **Accident analysis**

- Accident Frequency
- Accident Data
- Accident Rates
- Comparison against Control Data
- Cluster Sites
- Primary Accident Types
- Accident Trends
- 2010 targets performance review
- Road safety performance

## **Stakeholder Issues**

Contacts

Correspondence (requests and frequently asked questions)

## **Schemes**

Strategic Road Safety

Structural Maintenance

Minor improvements and major Schemes

Lighting schemes

Environmental scheme

## **Technical Projects and Strategy**

Traffic Signs

Road / Rail Interfaces

Speed Limits / Traffic Regulation Orders (TRO's)

Safety Audit History

Initiatives

Demonstration projects

Police enforcement strategy

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#### **ANNEX 8.3/B – Project Plan Template**




## SCOTTISH MINISTERS' REQUIREMENTS

### SCHEDULE 8 PART 3

### ROAD SAFETY AND ACCIDENT INVESTIGATION AND PREVENTION

#### ANNEX 8.3/B – Project Plan Template

STRATEGIC ROAD SAFETY PROJECT PLAN SCHEME																												
Scheme ID	Unit	TS Road Safety Officer	Work Type	Scheme Opened																								
Work Code	TS Area Manger	OC Project Manager	FDD	Date Last Saved																								
Works Location and Approximate length (Link/Section No's)																												
Details of the site (description, carriageway conditions)																												
<table border="1"> <thead> <tr> <th>Scheme Type / Accident Frequency / Accident Rate</th> <th>Monitoring</th> <th>Year</th> <th>Accident Frequency</th> </tr> </thead> <tbody> <tr> <td rowspan="6"></td> <td>Before – 3 Years</td> <td></td> <td></td> </tr> <tr> <td>After – Year 1</td> <td></td> <td></td> </tr> <tr> <td>After – Year 2</td> <td></td> <td></td> </tr> <tr> <td>After – Year 3</td> <td></td> <td></td> </tr> <tr> <td>Before Ave' Annual</td> <td></td> <td></td> </tr> <tr> <td>After Ave' Annual</td> <td></td> <td></td> </tr> </tbody> </table>						Scheme Type / Accident Frequency / Accident Rate	Monitoring	Year	Accident Frequency		Before – 3 Years			After – Year 1			After – Year 2			After – Year 3			Before Ave' Annual			After Ave' Annual		
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							Before – 3 Years																					
							After – Year 1																					
							After – Year 2																					
							After – Year 3																					
Before Ave' Annual																												
After Ave' Annual																												
Pavement Condition																												
Identified Accident Causation																												
Proposed Mitigation Measures (Excluding Pavement Works)																												
Pavement Works																												
Economic Analysis																												
Annual Accident Saving		First Year Rate of Return																										
Financial Monitor																												
Investigation	Design	Construction	Scheme																									
Estimated:	Estimate	Estimated	Estimated:																									
Actual:	Actual:	Actual:	Actual:																									
List of attached information																												
Agreed Record																												
AIP Representative		Signature		Date																								
SRS Representative		Signature		Date																								