

# Module SC7

## Scotland Route

### Sectional Appendix Module 7

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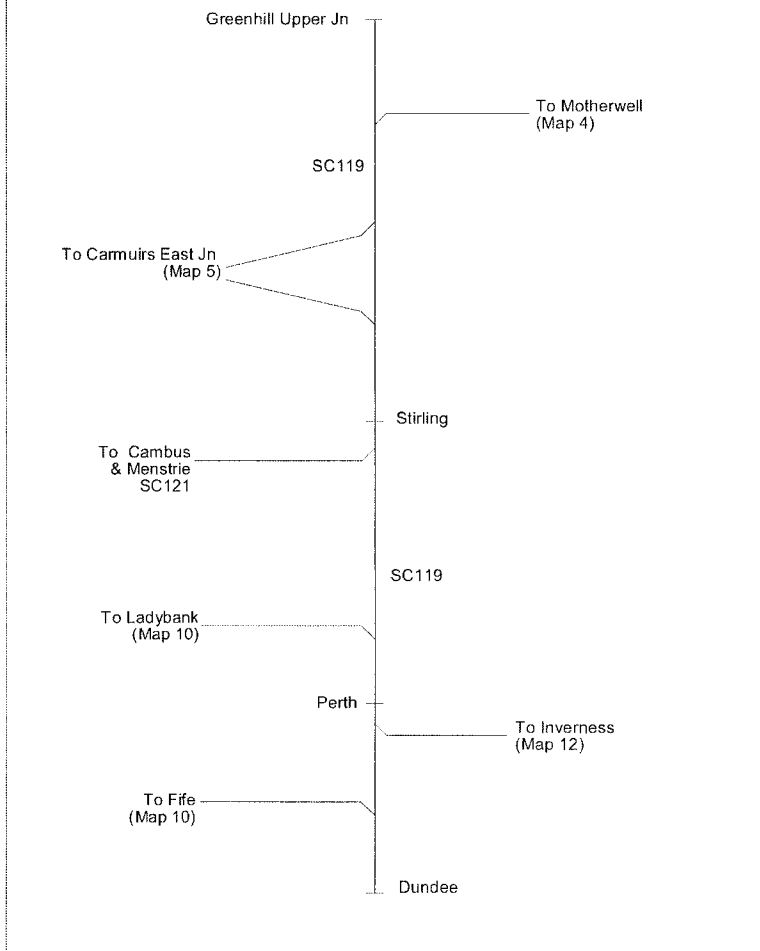
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## MAPS

MAP 6: GREENHILL UPPER JN TO DUNDEE



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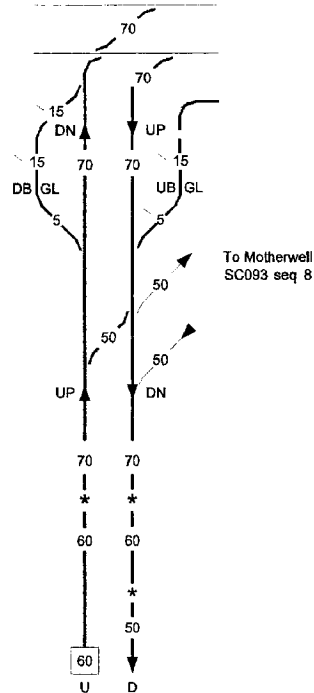
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SC121- STIRLING NORTH TO CAMBUS JN INCLUDING CAMBUS JN TO	29


LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	001	Greenhill Upper Jn to Dundee	GHL SCM3	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Greenhill Upper Jn	0 00	SC107 seq 13	<div>TCB</div> <div>Greenhill Jn SB (GJ)</div> <div>NRN 092</div>		
(Change of ELR GHL to SCM3)	0 56		UBGL = Up Branch Goods Loop 1495f (455m) (71 SLU's)		
Greenhill Lower Jn	0 56 106 63		DBGL = Down Branch Goods Loop 1285f (390m) (61 SLU's)		
	108 18 *		NOTE change of direction at Greenhill Lower Jn		
	108 54 *				



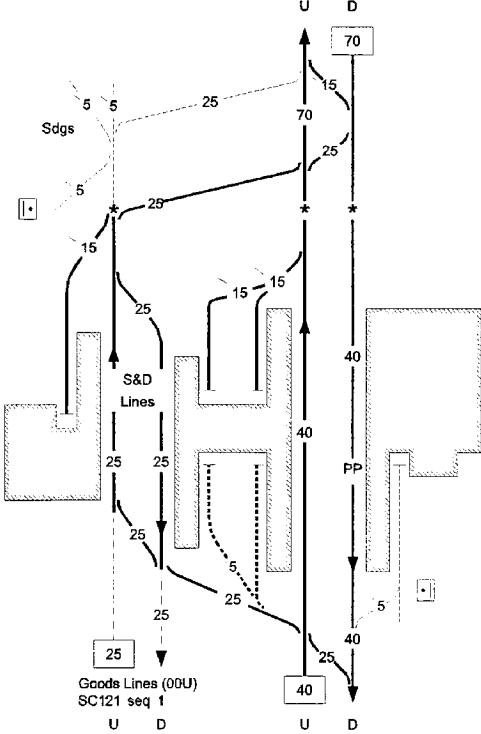



LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	002	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Carmuir West Jn SB		108 75 *			<div>TCB Greenhill Jn SB (GJ)</div> <div>AB Carmuir West Jn SB (CW)</div> <div>Larbert Jn SB (LJ)</div>
		108 76			
		109 10 *			
		109 41			

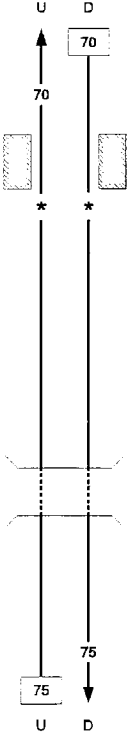
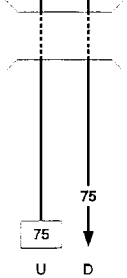
LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	003	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
<b>LARBERT</b>		110 17			<p>AB Larbert Jn SB (LN) </p>
Larbert North SB		110 30			<p>Larbert North SB (LN)</p> <p>UGL = Up Goods Loop UGL 865f (260m) (41 SLU's)</p> <p>DGL = Down Goods Loop DGL 590f (180m) (28 SLU's)</p> <p>① = UGL facing points 00U</p>

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	004	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Plean Jn SB	110 64 *		<div>AB Larbert North SB (LN) </div> <div>Plean Jn SB (PJ)</div>		

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	005	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks	
Clay Slaps LC (UWC)	117 21			<div> <div>AB</div> <div>Plean Jn SB (PJ)</div> <div> <div>NRN</div> <div>092</div> </div> </div>	
	117 32 *			<p>Down intermediate block section between Plean Jn and 116m 37ch</p> <p>Up intermediate block section between Stirling Middle and 116m 64ch</p>	

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	006	Greenhill Upper Jn to Dundee	SCM3 SAA	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Stirling Middle SB		118 08 *	 <p>Goods Lines (00U) SC121 seq 1</p>		<p>AB Plean Jn SB (PJ) </p> <p>Stirling Middle SB (SM)</p> <p>PP only during periods of significant service disruption</p> <p>Stirling North SB (SN)</p> <p>ELR - SCM3 = Main lines SAA = S&amp;D/Goods lines</p>
STIRLING		118 24			
Stirling North SB		118 38			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated			
SC119	007	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06			
Location		Mileage M    Ch	Running lines & speed restrictions		Signalling & Remarks			
			<div>U      D</div> <div>↑      40</div> <div>40      ↓</div> <div>★      ★</div> <div>65      65</div> <div>★      ★</div> <div>-----</div> <div>-----</div> <div>70      70</div> <div>70      ↓</div> <div>U      D</div>		<div>AB      Stirling North SB (SN)</div> <div>NRN 092</div>			
		118   40   *						
		119   40   *						
		119   60						
		Comton No 2 Footpath LC (F/G)		119   60				
		Comton LC (AHBC)		120   10				


LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	008	Greenhill Upper Jn to Dundee	SCM3	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
<b>BRIDGE OF ALLAN</b>	121 10		<div> <div>AB</div> <div>Stirling North SB (SN)</div> <div>NRN 092</div> </div>		
	121 20 *		<p>Bridge of Allan Down Intermediate Block Section between Stirling North and 121m 39ch</p> <p>Bridge of Allan Up Intermediate Block Section between Dunblane and 120m 66ch</p>		
Kippenross Tunnel 610 Yards	122 38 to 122 66				





LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	010	Greenhill Upper Jn to Dundee	SCM4	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks	
Quoiggs No 1 LC (UWC)		128 01		AB      Dunblane SB (DB)	
Greenloaning SB		129 17		UGL 840f (255m) (40 SLU's) 1015f (305m) can be refuged in loop and siding (48 SLU's) Greenloaning SB (GL)	
Carsebreck LC (UWC)		131 07		DGL 655f (200m) (31 SLU's) 1085f (330m) can be refuged in loop and siding (51 SLU's)	

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	011	Greenhill Upper Jn to Dundee	SCM4	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Boreland Farm LC (UWC)		132 20			<div>AB Greenloaning SB (GL) </div> <div>URS 810f (246m) (38 SLU's)</div> <div>DRS 1135f (345m) (54 SLU's)</div>
Blackford SB & LC (MCB)		133 28			<div>Blackford SB (BK)</div>

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	012	Greenhill Upper Jn to Dundee	SCM4	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
GLENEAGLES		135 50			<p>AB Blackford SB (BK) </p> <p>DRS 645f (196m) (30 SLU's)</p> <p>URS 1145f (349m) (54 SLU's)</p> <p>TCB Auchterarder SB (AR)</p>
		135 60			
Auchterarder SB		137 41			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	013	Greenhill Upper Jn to Dundee	SCM4	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Whitemoss LC (AHBC-X)	140 24		<div>TCB</div> <div>Auchterarder SB (AR)</div> <div>NRN 092</div>		
	140 40 *				
Broadslap LC (UWC)	141 02				
Easter Balgour LC (UWC)	142 36				
Baldinnies No1 LC (UWC)	142 70				

LOR	Seq.	Line of Route Description		ELR	Route	Last Updated
SC119	014	Greenhill Upper Jn to Dundee		SCM4	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions			Signalling & Remarks
Forteviot LC (AHBC-X)		144 44				TCB      Auchterarder SB (AR)
Forteviot Farm LC (UWC)		145 13				
Broombarns LC (UWC)		146 31				
Forgandenny Ford LC (UWC)		147 39				
		147 40 *				
Kirkton of Mailer No2 LC (UWC)		148 66				



LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	015	Greenhill Upper Jn to Dundee	SCM4	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Hilton Jn SB		149 17 *			<div>TCB      Auchterarder SB (AR)</div> <div>NRN 092</div> <div>(1) The trailing crossover must only be used in accordance with instructions issued locally</div> <div>AB      Hilton Jn SB (HJ)</div>
Moncrieffe Tunnel 1210 Yards		149 29 to 150 04			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	016	Greenhill Upper Jn to Dundee	SCM4 SCM5 HGL1	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Down main signal P29		150 50 *			<div>TCB</div> <div>Perth SB (P)</div> <div>NRN 092</div>
(Change of ELR SCM4 to SCM5)		150 61			
Down Fast signal P61 and up Fast signal P64 and Down Dundee loop signal P65		151 00 *			UDUL = Up Dundee loop DDUL = Down Dundee loop (1) 15mph over all lines and connections between 151m 00y and 151m 52ch (Inverness lines)
		151 03 21 01			
Perth SB		151 05 (2)			(2) Inverness lines mileage  ELR - SCM5 from 150m 61ch to Dundee Loop lines HGL1 from 150m 61ch to Main lines

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	017	Greenhill Upper Jn to Dundee	SCM5	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
<b>PERTH</b>	20 64		<div>TCB</div> <div>Perth SB (P) </div>		
	20 46 *		<div>TB Perth SB (P) &amp; Barnhill SB (BH)</div> <div>Single Line Only</div>		
Barnhill SB	19 69		<div>AB Barnhill SB (BH)</div>		
	19 62 *				



LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	018	Greenhill Upper Jn to Dundee	SCM5	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
			<div>U D</div> <div><div>60</div><div>60</div></div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 60</div> <div>60 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LOR	Seq	Line of Route Description	ELR	Route	Last Updated
SC119	019	Greenhill Upper Jn to Dundee	SCM5	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
Murie LC (AHBC)	12 35		AB Barnhill SB (BH) 		
Inchoonans LC (AHBC-X)	11 55				
Errol SB & LC (MCB)	10 45		Errol SB (ER) 		
Grange LC (AHBC-X)	9 17				

LOR	Seq.	Line of Route Description		ELR	Route	Last Updated
SC119	020	Greenhill Upper Jn to Dundee		SCM5	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks	
Inchtute LC (AHBC-X)		8 11			AB      Enrol SB (ER)	
Kingston LC (UWC)		7 21				
Templehall LC (AHBC-X)		6 02			TCB      Longforan SB (LF)	
Longforan SB & LC (MCB)		5 55			Dundee SC (D)	
Pilmore West LC		5 10				

LOR	Seq.	Line of Route Description		ELR	Route	Last Updated			
SC119	021	Greenhill Upper Jn to Dundee		SCM5	Scotland	02/12/06			
Location		Mileage M Ch	Running lines & speed restrictions			Signalling & Remarks			
INVERGOWRIE			<div><div>U</div><div>↑</div><div>90</div><div>*</div><div>80</div><div>80</div><div>*</div><div>75</div><div>*</div><div>50</div><div>50</div><div>*</div><div>40</div><div>↓</div><div>D</div></div> <div><div>90</div><div>*</div><div>80</div><div>*</div><div>75</div><div>*</div><div>50</div><div>*</div><div>40</div></div>			TCB		Dundee SC (D)	NRN 094
		4 78 *							
		3 54	T						
		3 50							
		2 31 *							
		1 39 *							
		0 45 *							

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	022	Greenhill Upper Jn to Dundee	ECN2	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Dundee Central Jn					<div>TCB Dundee SC (D) </div> <p>WRL = West Reception Line</p> <p>DTL = Down Through line</p> <p>ERL = East Reception line</p>
		0 36 58 69			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC119	023	Greenhill Upper Jn to Dundee	ECN2	Scotland	02/12/06
Location	Mileage M Ch	Running lines & speed restrictions	Signalling & Remarks		
<b>DUNDEE</b>	59 14		<div>TCB Dundee SC (D) NRN 094</div> <p>DTL = Down Through line</p> <p>On platform lines 1 and 4 in both directions, PP only during periods of significant service disruption ; PP(A) only for booked movements or during periods of significant service disruption</p> <p>UTL = Up Through line</p>		
Dundee SC	59 15 *				
	59 17				

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC121	001	Stirling North to Cambus Jn Including Cambus Jn to Menstrie (Goods Lines) (Both OOU)	SAA	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Stirling North SB		0 14	<div>SC119 seq 6</div> <div><div>U</div><div>D</div><div>25</div><div>25</div><div>25</div><div>5</div><div>5</div><div>5</div><div>45</div><div>10</div><div>45</div><div>10</div><div>45</div></div>		<div>NRN</div> <div>Stirling North SB (SN)</div> <div>092</div> <div>Special arrangements apply for access to this line</div>
Causewayhead LC (AOCL)		1 15 *			A Down direction advance warning board applicable to Causewayhead, Waterside and Abbeycraig AOCL's is provided at 0m 1140y 52ch and an Up direction advance warning board at 2m 34ch
Waterside LC (AOCL)		1 46			
Abbeycraig LC (AOCL)		1 66			

LOR	Seq.	Line of Route Description	ELR	Route	Last Updated
SC121	002	Stirling North to Cambus Jn Including Cambus Jn to Menstrie (Goods Lines) (Both OOU)	SAA MTE	Scotland	02/12/06
Location		Mileage M Ch	Running lines & speed restrictions		Signalling & Remarks
Manor Powis LC (TMO)		2 71			<p>Stirling North SB (SN) </p> <p>Special arrangements apply for access to this line and to the Menstrie branch</p> <p>① = 10mph, UB No 2 at 1m 22ch</p> <p>NOTE direction on Menstrie Branch</p> <p>② = Notice Board</p> <p>YARD WORKING applies between Notice Board and end of Cambus Line</p> <p>③ = Menstrie Branch mileage</p> <p>ELR - SAA = Cambus line MTE = Menstrie Branch</p>
		3 43			
Cambus Jn		4 38 0 19 ③			



**ROUTE CLEARANCE**  
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**Table D1 - Route clearance of diesel multiple unit trains**

To be read in conjunction with General Notes.

Line of route	Line of Route / Sector Description	Her	14X	150	153	155	156	158	170	Notes
SC119	GREENHILL UPPER JN TO DUNDEE (INCLUDING CARMUIRS EAST JN TO LARBERT JN)	Y	N	Y	Y	Y	Y	Y	Y	

**LOCAL INSTRUCTIONS**  
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## SC119 - GREENHILL UPPER JN TO DUNDEE

### LARBERT

**Larbert North - Down yard and goods loop line** - Drivers entering the yard or Down goods loop at Larbert North must stop clear of all crossings at the Northmost end of the yard or loop line.

In the event of the rear part of the train not being clear of the crossings at the South end of the yard or loop line, it is the duty of the driver to protect the train.

**Larbert station** - A telephone giving communication with Larbert North box is provided on the Down platform, adjacent to the platform entrance, to facilitate train working.

**Dated: 02/12/06**

## SC119 - GREENHILL UPPER JN TO DUNDEE

### STIRLING

**Platform 2** - Drivers of trains timed to stop at Stirling must, on bringing their train to a stand at platform 2 (Down main), use the telephone provided, (below the 3 car marker board), to speak to the signaller at Stirling North if the home signal is at danger.

Drivers must understand that if the home signal is subsequently cleared, the section signal may be at danger and the provisions of the Rule Book, Module S2, Section 2 must be applied.

**Platform 3** - Drivers of trains timed to stop at Stirling must, on bringing their train to a stand at platform 3 (Up main), sound the horn if the home signal is at danger.

If the signal is not cleared after the horn has sounded, the driver must wait a further two minutes and again sound the horn.

If the signal is still not cleared, the driver must communicate with the signaller.

Drivers must understand that if the home signal is cleared after the horn has been sounded, the section signal may be at danger and the provisions of the Rule Book, Module S2, Section 2 must be applied.

**Stirling Middle** - The stabling of vehicles in the Up spur is prohibited.

**Dated: 02/12/06**

## SC119 - GREENHILL UPPER JN TO DUNDEE

### Stirling North SB To DUNBLANE

**Bridge of Allan Up IB Home signal** - Should it be necessary to comply with the provisions of the Rule Book, Module S5, Part B.2, the driver must, additionally, approach Cornton AHB level crossing cautiously and be prepared to stop short of it, and not proceed over the crossing until authority is received from the crossing attendant, or the driver has satisfied himself that it is safe to do so.

**Kippenross Tunnel** - A high tension electric power cable passes through this tunnel on the Down side about five feet above ground level.

**Dated: 02/12/06**

## SC119 - GREENHILL UPPER JN TO DUNDEE

### DUNBLANE

When a Down train terminating at Dunblane is brought to a stand at the Down main or Down loop platform, the driver must immediately advise the signaller that the train is complete with tail lamp.

**CE's siding** - This siding must only be used by engineers' 'on track' machines.

When a movement requires to be made to or from this siding, the person in charge of the movement must verbally advise the signaller what is required.

The derailer provided at the exit from the siding is operated by the signaller and before a movement from the siding commences, the person in charge of the movement must ascertain that the derailer has been removed.

**Dated: 02/12/06**

## SC119 - GREENHILL UPPER JN TO DUNDEE

### ^uchterarder SB To Hilton Jn SB

(  
In connection with the restriction imposed by the Zone Structures Engineer in association with Underbridge No 88, (Earn Viaduct between 147 miles 1220 yards and 147 miles 1420 yards), the following arrangements must be observed :-

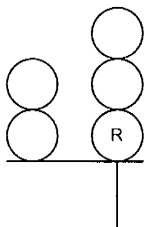
1. If a train is brought to a stand at Hilton Junction Down main automatic signal HJ19, the driver must inform the signaller immediately. (The Rule Book, Module S4, Section 2 is amended accordingly.)
2. If the telephone has failed at signal HJ19, the driver must **not** proceed beyond the signal unless he has spoken with the signaller and obtained his authority to do so. (The Rule Book, Module S5, Part B,2 is modified accordingly.)
3. Where the Engineer takes possession of this portion of route and an Engineer's train requires to work within the possession, a double line possession must be taken.

**Dated: 02/12/06**

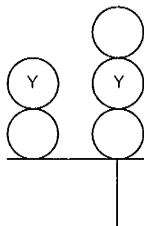
## SC119 - GREENHILL UPPER JN TO DUNDEE

### Hilton Jn SB To PERTH

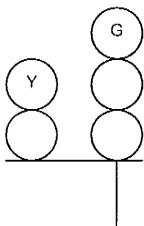
Perth Up main colour light section signal, plated P6, is combined with Hilton Jn Up main splitting distant signal. Drivers must understand the meaning of the aspects associated with this signal as follows (the Rule Book, Module S1, Section 2 is modified accordingly):-



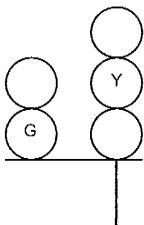
Stop



Be prepared to stop at Hilton Jn Up home signals



All associated stop signals worked from Hilton Jn box are clear with the facing junction points set for the main (Stirling) line



All associated stop signals worked from Hilton Jn box are clear with the facing junction points set for the branch (Ladybank) line

(The yellow and green aspects of the above signal are repeated by a ground mounted signal within Moncrieffe tunnel.)

Dated: 02/12/06

## SC119 - GREENHILL UPPER JN TO DUNDEE

### ^UNDEE

**^Undee station** - Authority is given to propel empty DMU trains from the Down through or Down platform lines at the East end of the station to the Down main line for shunting movements which come to a stand on the Camperdown side of signal D758 before proceeding to the Down through or Down platform lines, and from the Up through or Up platform lines to the Up main for shunting movements which come to a stand on the Camperdown side of signal D762 before proceeding to the Up through or Up platform lines.

**East reception line** - The stabling of vehicles in the headshunt of the East reception line beyond the connection with the loco release line is prohibited. Vehicles capable of movement under their own power must not be left unattended in the headshunt.

**Sprinter Multiple Units** - Coupling / uncoupling operations involving these units in the Dock platform lines must only be carried out as under :-

An attaching movement must only be made to a single unit provided such unit is positioned on straight track on the approach to the buffer stops. A detaching movement involving more than two units must only be carried out between the two units nearest the buffer stop end of the train, provided this is done on straight track. No restriction applies to the number of sets to be attached to or detached from the unit in the Dock platform next to the buffer stop end.

^ference to "unit" in this instruction must be taken to mean 2 vehicles.

**^ridge Engineers motorised trolley** - The machine must not be relied upon to actuate track circuits. When the machine requires to pass over lines outwith the possession of the engineer, the signaller must, provided the route is clear, operate individual point switches to hold the points in the required position before giving permission for the movement to commence. The points must be held in the required position until the signaller is satisfied the machine has passed clear.

**Dated: 02/12/06**

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