

Telent traffic controller configuration forms

Customer: TRAFFIC SIGNALS UK LIMITED (HEREFORDSHIRE COUNCIL)

Intersection description: A449/A438/B4216 TOP CROSS - LEDBURY, (HIGH ST/NEW ST/WORCESTER RD)

Telent tender no.:

Telent works order no.:

Customers order no.: HEREFORD LED

Dated:

Customers engineer: VINCENT BEECHAM

Customers telephone no.: 07968305399

Ext:

Equipment installation by: TELENT

Slot cutting by:

Civil works by:

Configuration no.: CFGM0210

Issue:

Configuration engineer: SIMON WINTER

General Data

Power supply data

Mains voltage	240 Volts
Mains frequency	50 Hz
Peak current	0.0 Amps
Dimming voltage	160

Solar switch data

Detector timing set data	Set 1	Set 2	Set 3	Set 4
Call delay period (Seconds)	10	10	10	10
Cancel delay period (Seconds)	10	10	10	10
DFM active times (Hours or minutes)	24H	24H	24H	24H
DFM inactive times (Hours or minutes)	24H	24H	24H	24H

British summertime change data

BST start week	13	BST end week	43
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Options

Is manual disable via handset option required?	No
Delay FVP pedestrian demand?	No
PMT pedestrian demand delay with extension?	No
Limit handset warnings to UTC enabled warnings?	No

Configuration notes

OPTIMA CONFIGURATION version 1 Software

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ARTERIAL REVERSION

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DURING MOVA/UTC MODE REVERSION IS TO ALL RED STAGE 6.DURING VA MODE REVERSION IS TO ALL RED STAGE 0.

BLEEPER DRIVER

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BLEEPER DRIVER PHASE G IS ENABLED/DISABLED BY TIMETABLE EVENT FLAG 1 ON/OFF.

PELICAN LINK

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AN INHIBIT LINK OUTPUT TO THE NEARBY PELICAN IS AVAILABLE ON O/P 00.
THE INHIBIT IS ACTIVE WHEN THIS CONTROLLER IS MOVING TO OR IN STAGE 4/5.

MANUAL MODE

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IF SCB/1=1 THEN STAGE 3 IS INHIBITED IN MANUAL MODE

Configuration history

Issue	Date	Description
1.00	13/02/13	INITIAL CONFIGURATION
1.01	23/02/2013	Intermediate edit

Phase data 1

Phase Id	Road Name(s)	Phs. type	Appearance assoc'ted		Termination assoc'ted		Restart allowed	App. in man
			type	phase(s)	type	phase(s)		
A	WORCESTER ROAD	T	0		0		No	0
B	NEW STREET	T	0		0		No	0
C	HIGH STREET SOUTHBOUND	T	0		0		No	0
D	HIGH STREET NORTHBOUND	T	0		0		No	0
E	HIGH STREET NORTHBOUND RTIA	G	0		2	D	No	0
F	PEDS 'X' HIGH STREET NORTH	P	0		0		No	0
G	BLEEPER DRIVER	G	4	F	2	F	No	2
DA	DUMMY FOR ALL RED	G	0		0		No	0

Phase data 2

Phase Id	Min green Time	Min green limit	Window time	Speed measurement facilities		Assoc to ped. phases	Cond demand type	Conditioning phases
				Exist	Ped. phases			
A	7.0	5.0	-	No		No	NONE	
B	7.0	5.0	-	No		No	NONE	
C	7.0	5.0	-	No		No	NONE	
D	7.0	5.0	-	No		No	NONE	
E	4.0	2.0	-	No		No	NONE	
F	9.0	5.0	-	-		-	NONE	
G	0.0	0.0	-	No		No	NONE	
DA	2.0	0.0	-	No		No	NONE	

Phase data 2_1

Phase Id	Maximum greens (VA)								Maximum greens (PTM)								Maximum greens (FVP)							
	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	Set 7	Set 8	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	Set 7	Set 8	Set 1	Set 2	Set 3	Set 4	Set 5	Set 6	Set 7	Set 8
A	40.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B	40.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	40.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D	40.0	60.0	40.0	40.0	40.0	40.0	40.0	40.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
G	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Phase data 2_2

Phs Id	Fixed seq.	Ped type	Demand extn.	Dithering		Pedestrian intergreen sequence times						PV info		PV associated to			PV delay	PV Window	Local override
				Quiescent	Normal	Gap	Frc	Min	Max	Clr	Xtr	UTC	Local	Phase	Str/Stg	Input			
A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
F	Yes		1.0	0.0	1.0	1.0	3.0	3.0	-	1.0	-	0	No trigger	-	-	0	-	-	-
G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Phase data 2_3

Phase compensation				
	Compensation sets			
Phase Id	Set 1	Set 2	Set 3	Set 4
A	0.0	0.0	0.0	0.0
B	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0
D	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0
F	0.0	0.0	0.0	0.0
G	0.0	0.0	0.0	0.0
DA	0.0	0.0	0.0	0.0

Phase data 2_4

Pedestrian supplementary signals									
Phase Id	Illuminate wait lamps on phase	Tactile	Confirmation input	State	Audible	Confirmation input	Active state	Drive phase	Duration
A		False	False	OC	False	False	OC	A	
B		False	False	OC	False	False	OC	B	
C		False	False	OC	False	False	OC	C	
D		False	False	OC	False	False	OC	D	
E		False	False	OC	False	False	OC	E	
F	F	true	False	OC	true	False	OC	F	
G		False	False	OC	False	False	OC	G	
DA		False	False	OC	False	False	OC	H	

Phase data 4

Phase Id	Conflicting greens	Opposed by phase demands	Opposed by stage demands	Revertive phase demands
A	B,C,D,E,F,G	ALL		A
B	A,C,D,E,F,G	ALL		B
C	A,B,E,F,G	ALL		C
D	A,B,F,G	ALL		D
E	A,B,C,F,G	ALL		D
F	A,B,C,D,E	ALL		
G	A,B,C,D,E	ALL		
DA		ALL		

Lamp sequence data

Phs. type	Sequence description	Start-up starting			Start-up stoping			Normal starting			Normal stopping			Running		Stopped		Shutdown	
		State 1	State 2	Duration	State 1	State 2	Duration	State 1	State 2	Duration	State 1	State 2	Duration	State 1	State 2	State 1	State 2	State 1	State 2
FP	FAR/SIDE PEDESTRIAN	G	G	0	R	R	0	G	G	0	B	B	3	G	G	R	R	B	B
G	IND/FILTER	G	G	0	B	B	0	G	G	0	B	B	0	G	G	B	B	B	B
L	LRT	G	G	0	A	A	5	G	G	0	A	A	5	G	G	R	R	B	B
NP	NEAR/SIDE PEDESTRIAN	G	G	0	R	R	0	G	G	0	R	R	3	G	G	R	R	B	B
P	PEDESTRIAN	G	G	0	R	R	0	G	G	0	B	B	PBT	G	G	R	R	B	B
PP	PELICAN PEDESTRIAN	R	R	0	B	G	3	G	G	0	B	G	0.1	G	G	R	R	B	B
PT	PELICAN TRAFFIC	B	A	5	A	A	3	B	A	6	A	A	3	G	G	R	R	B	B
T	TRAFFIC	G	G	0	A	A	3	R,A	R,A	2	A	A	3	G	G	R	R	B	B
W	Wig-Wag	A	A	5	B	B	0	A	A	5	B	B	0	R	G	B	B	B	B

Stage data

Stream 1		Start-up stage no.	0
Stage	Active phases		
0	DA		
1	A		
2	B		
3	F,G		
4	C,D		
5	D,E		
6	DA		
7			
8			
9			
10			
11			
12			
13			
14			
15			

Mode data

Stream 1		Starting intergreen duration	8.0
Mode	Priority no.	All red extension auto to max	
C.L.F.			
PSV emergency			
Hurry Call 1			
Hurry Call 2			
Hurry Call 3			
Hurry Call 4			
LRT			
Manual	1	No	
Manual FT	2	Yes	
MOVA			
Normal - VA	4	No	
PSV priority			
Part time			
UTC	3	No	
Phase demands to be inserteted on start-up and when leaving manual or fixed time modes			
A,B,C,D,F			

Part time and hurry call mode data

Stream 1

Part time mode data

Switch-off stage		Part-time hold duration	0H	Part-time prevent duration	0H	Part-time queue detector(s)	
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Hurry call mode data

Hurry call no.	Call stage	Request detector(s)	Cancel detector(s)	Output name	Delay period	Hold period	Prevent period
1				N/A	0.0	0.0	0.0
2				N/A	0.0	0.0	0.0
3				N/A	0.0	0.0	0.0
4				N/A	0.0	0.0	0.0

Manual mode data

Manual button no.	Stage number for each stream								Street name(s)
	1	2	3	4	5	6	7	8	
All red	0								ALL RED
1	1								WORCESTER ROAD
2	2								NEW STREET
3	3								PEDESTRIANS
4	4								HIGH STREET
5	5								HIGH STREET RIGHT TURN
6									
7									
8									
9									
10									
Button no. for initial manual stage set								0	Streams that must be in manual mode together

UTC general data, confirm bit data & SF/LO qualification periods

UTC General data

UTC option	1 (MCE 0105/0106)	Stream linking options								Sync confirm times		Time sync data	
TF Reset time	00:00:00	1	2	3	4	5	6	7	8	RT reply bit	3	Day type	Any
Use serial interface for UTC	False	U	U	U	U	U	U	U	U	SR reply bit	3	Reference time	00:00:00
UTC active state	Short circuit											Repeat rate	24H
												Window time	24H

UTC confirm data

Stream	Confirm bit(s) to be used for manual mode running on stream	Confirm bit(s) to be used for fixed time running on stream
1	CRB	CRB
2		
3		
4		
5		
6		
7		
8		

Controller state	Confirm bit(s) to be used for controller state
Manual mode selected	CRB
Signals off failed	CRB,LE
Signals off manually	CRB,LE
Detectors fault	DF
Controller fault	
Controller warning	
Manual fixed time selected	CRB

SF/LO qualification periods

L01	10.0	L02	10.0	L03	10.0	L04	10.0	L05	10.0	L06	10.0	L07	10.0	L08	10.0
SF01	7.0	SF02	7.0	SF03	7.0	SF04	7.0	SF05	7.0	SF06	7.0	SF07	7.0	SF08	7.0
SF09	7.0	SF10	7.0	SF11	7.0	SF12	7.0	SF13	7.0	SF14	7.0	SF15	7.0	SF16	7.0

UTC force bits

Force bit	Phase demands to be considered for demand depended stages	Required phase extensions	Stage to force in each stream							
			1	2	3	4	5	6	7	8
F01			1							
F02			2							
F03			3							
F04			4							
F05			5							
F06			6							
F07			6							

UTC (stream/stage) confirm data

Stage no.	Stream							
	1	2	3	4	5	6	7	8
00								
01	G1							
02	G2							
03	G3							
04	G4							
05	G5							
06	G6							
07								
08								
09								
10								
11								
12								
13								
14								
15								

UTC control/reply bit - stage stream associations

Control/ reply bit	Associated bit id per stream							
	1	2	3	4	5	6	7	8
FC								
FGR								
FM								
GO								
HC								
LL								
LO								
LRTI								
LRTR								
TOR								

UTC demand bits (DX Bits)

DX Bit	Latched stage demands	Unlatched stage demands	Latched phase demands	Unlatched phase demands	Phase extension demands
DX1					
DX2					
DX3					
DX4					
DX5					
DX6					
DX7					
DX8					

UTC demand bits (D Bits)

D Bit	Latched stage demands	Unlatched stage demands	Latched phase demands	Unlatched phase demands	Phase extensiob demands
D1					
D2					
D3					
D4					
D5					
D6					
D7					
D8					
D9					
D10					
D11					
D12					
D13					
D14					
D15					
D16					
D17					
D18					
D19					
D20					
D21					
D22					
D23					
D24					
D25					
D26					
D27					
D28					
D29					
D30					
D31					
D32					

UTC demand reply bits (SD Bits)

SD Bit name	Stage demands to reply	Phase demands to reply
SD1		
SD2		
SD3		
SD4		
SD5		
SD6		
SD7		
SD8		
SD9		
SD10		
SD11		
SD12		
SD13		
SD14		
SD15		
SD16		
SD17		
SD18		
SD19		
SD20		
SD21		
SD22		
SD23		
SD24		
SD25		
SD26		
SD27		
SD28		
SD29		
SD30		
SD31		
SD32		

UTC timeout data and local link inhibit data

UTC Timeout data										
	UTC bits									
	F	D	DX	SF	FM	LO	GO	LL	LRTI	PV
Timeout duration	300	0	0	0	0	0	0	0	0	500
No timeouts allowed	False	True	True	True	True	True	True	True	True	True

UTC local link inhibit data	
LL Bits	Phases
LL01	
LL02	
LL03	
LL04	
LL05	
LL06	
LL07	
LL08	

FT and VA mode

Stream 1																	
FT mode data													Normal FT or VA to max			VA	
From stage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Stage time	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
To stage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Demad dependant phases during VA to max				E,F,G,DA													
VA mode data																	
Arterial reversion to stage/phase				0	VA stage selection option required					Near							

Stage to stage movement table index

Mode	Stage movement table for stream							
	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7	Stream 8
C.L.F.	1							
PSV emergency								
Hurry call 1								
Hurry call 2								
Hurry call 3								
Hurry call 4								
LRT								
Manual	1							
Manual FT								
MOVA								
Normal VA/FT	1							
PSV priority								
Part time								
UTC	1							

Stage to stage movement data

Table 1

From stage	To stage															
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
00						4										
01				2	2	2										
02						4										
03						4										
04																
05					1											
06																
07																
08																
09																
10																
11																
12																
13																
14																
15																

Minimum intergreen durations

From phs.	To phase							
	A	B	C	D	E	F	G	DA
A		5.0	5.0	6.0	6.0	12.0	12.0	3.0
B	7.0		9.0	9.0	6.0	10.0	10.0	3.0
C	7.0	5.0			5.0	5.0	5.0	3.0
D	8.0	6.0				8.0	8.0	3.0
E	7.0	6.0	8.0			9.0	9.0	3.0
F	5.0	5.0	5.0	5.0	5.0			3.0
G								
DA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

Maximum intergreen durations

From phs.	To phase							
	A	B	C	D	E	F	G	DA
A		19.0	19.0	19.0	19.0	22.0	22.0	
B	19.0					20.0	20.0	
C	19.0							
D	14.0					18.0	18.0	
E								
F								
G								
DA								

Intergreen Minimum limit values

From phs.	To phase							
	A	B	C	D	E	F	G	DA
A		5.0	5.0	5.0	5.0	10.0	10.0	3.0
B	5.0		5.0	5.0	5.0	5.0	5.0	3.0
C	5.0	5.0			3.0	5.0	5.0	3.0
D	5.0	5.0				5.0	5.0	3.0
E	5.0	5.0	5.0			5.0	5.0	3.0
F	5.0	5.0	5.0	5.0	5.0			3.0
G								
DA	2.0	2.0	2.0	2.0	2.0	2.0	2.0	

Phase delay data

Delay No.	Losing stage	Gaining stage	Delay phase	Delay period
1	6	1	A	3.0
2	6	2	B	4.0
3	6	4	C	4.0
4	6	4	D	4.0

Detector data 1

Det. name	Det. type	Dummy	Vis. unit no.	Active state	Count det.	Self reset	Detector set			Latched phase demand(s)	Unlatched phase demand(s)	Green extension(s)		Varimax phases
							Gap period	Gap count	Self confirm			Phase	Taper %	
AIN1	NM	No		OC	No	No	0.5	15	No				100	
AX2	NM	No		OC	No	No	0.5	15	No	A		A(3.5)	100	
ASL3	NM	No		OC	No	No	0.5	15	No	A			100	
BIN4	NM	No		OC	No	No	0.5	15	No				100	
BX5	NM	No		OC	No	No	0.5	15	No	B		B(3.5)	100	
BSL6	NM	No		OC	No	No	0.5	15	No	B			100	
CIN7	NM	No		OC	No	No	0.5	15	No				100	
CX8	NM	No		OC	No	No	0.5	15	No	C		C(3.5)	100	
CSL9	NM	No		OC	No	No	0.5	15	No	C			100	
DIN10	UD	No		OC	No	No	0.5	15	No				100	
DX11	NM	No		OC	No	No	0.5	15	No	D		D(3.5)	100	
DSL12	NM	No		OC	No	No	0.5	15	No	D			100	
ECC13	NM	No		OC	No	No	0.5	15	No		E	E(2.0)	100	
AIB1	NM	No		OC	No	No	0.5	15	No				100	
AIB2	NM	No		OC	No	No	0.5	15	No				100	
AOB1	NM	No		OC	No	No	0.5	15	No				100	
AOB2	NM	No		OC	No	No	0.5	15	No				100	
PBF	PB	No		SC	No	No	0.5	15	No	F			100	
FCLEAR	NM	No		OC	No	No	0.5	15	No				100	

Detector data 2

Det. name	DFM Timings								DFM face states		Call/cancel timings								Associated to ped.		
	DFA				DFI				Active	Inactive	DCL				DCN				Phase	Extn.	Push Buttons
	Set 1	Set 2	Set 3	Set 4	Set 1	Set 2	Set 3	Set 4			Set 1	Set 2	Set 3	Set 4	Set 1	Set 2	Set 3	Set 4			
AIN1	30M				18H				I	A									-	-	-
AX2	30M				18H				A	A									-	-	-
ASL3	30M				18H				A	A									-	-	-
BIN4	30M				18H				I	A									-	-	-
BX5	30M				18H				A	A									-	-	-
BSL6	30M				18H				A	A									-	-	-
CIN7	30M				18H				I	A									-	-	-
CX8	30M				18H				A	A									-	-	-
CSL9	30M				18H				A	A									-	-	-
DIN10	30M				18H				I	A									-	-	-
DX11	30M				18H				A	A									-	-	-
DSL12	30M				18H				A	A	2.0	2.0							-	-	-
ECC13	30M				18H				A	A	5.0	5.0			1.0	1.0			-	-	-
AIB1	30M				18H				A	A									-	-	-
AIB2	30M				18H				I	A									-	-	-
AOB1	30M				18H				A	A									-	-	-
AOB2	30M				18H				I	A									-	-	-
PBF									N	A									-	1.0	-
FCLEAR	30M				18H				A	A									-	-	-

Intergreen extension data

Ig-Ext no.	Losing phase	Gaining phase	Assoc. det.	Extn. time
1	B	A	AOB1	2.0
2	C	A	AOB1	2.0
3	D	A	AOB1	2.0
4	B	A	AOB2	2.0
5	C	A	AOB2	2.0
6	D	A	AOB2	2.0
7	B	A	AIB1	2.0
8	C	A	AIB1	2.0
9	D	A	AIB1	2.0
10	B	A	AIB2	2.0
11	C	A	AIB2	2.0
12	D	A	AIB2	2.0
13	A	B	AIB1	2.0
14	A	C	AIB1	2.0
15	A	D	AIB1	2.0
16	A	B	AIB2	2.0
17	A	C	AIB2	2.0
18	A	D	AIB2	2.0
19	A	B	AOB1	2.0
20	A	C	AOB1	2.0
21	A	D	AOB1	2.0
22	A	B	AOB2	2.0
23	A	C	AOB2	2.0
24	A	D	AOB2	2.0
25	A	E	AIB1	2.0
26	A	F	AIB1	2.0
27	A	G	AIB1	2.0
28	A	E	AIB2	2.0
29	A	F	AIB2	0.5
30	A	G	AIB2	0.5
31	A	E	AOB1	2.0
32	A	F	AOB1	0.5
33	A	G	AOB1	0.5
34	A	E	AOB2	2.0
35	A	F	AOB2	0.5
36	A	G	AOB2	0.5
37	A	F	FCLEAR	1.0
38	A	G	FCLEAR	1.0

Ig-Ext no.	Losing phase	Gaining phase	Assoc. det.	Extn. time
39	B	F	FCLEAR	1.0
40	B	G	FCLEAR	1.0
41	D	F	FCLEAR	1.0
42	D	G	FCLEAR	1.0

Timetable entry data

No.	Day type	Time	Event list	Priorities
1	WKD	06:30:00	1	1
2	WKD	09:30:00	2	1
3	WKD	15:00:00	3	1
4	WKD	18:30:00	4	1
5	SAT	08:30:00	5	1
6	SAT	18:00:00	6	1
7	SUN	10:00:00	7	1
8	SUN	19:00:00	8	1
9	WEK	07:30:00	11	1
10	WEK	21:00:00	12	1

Timetable event list data

List no.	Event Action 1		Event Action 2		Event Action 3		Event Action 4		Event Action 5		Event Action 6		Event Action 7		Event Action 8	
	Type	Params	Type	Params	Type	Params	Type	Params	Type	Params	Type	Params	Type	Params	Type	Params
1	TTS	1														
2	TTS	2														
3	TTS	3														
4	TTS	4														
5	TTS	5														
6	TTS	6														
7	TTS	7														
8	TTS	8														
9	TDT	1														
10	TDT	2														
11	TEF	1=ON														
12	TEF	1=OFF														

Timetable priorities data

Priority level 1. All year round					
Start			End		
Month	Day	Hour	Month	Day	Hour
Jan	1	0	Dec	31	24

Special conditioning timer data

Timer no.	Timer name	Duration	Fixed	Comment
1	F6OVR	280	No	F6 OVERRIDE TIMER
2	CRBTOG	2	No	CRB TOGGLE DURATION
3	CRBDLY	180	No	CRB TOGGLE DELAY DURATION

Special conditioning statements

Statement 1

Comments | When manual mode is not running inhibit all red button.

If Not MANMODE-1

Then MANIPI-PB0

Else MANIPN-PB0

Statement 2

Comments | MOVA inhibit switch, SCBBITS:255=1 DISABLES MOVA CONTROL

If SCBITS-255

Then UTCI-1

Else UTCN-1

Statement 3

Comments | Moving to/in stage 4/5 sets LINK output.

If NXTSTG-1.4 **Or** NXTSTG-1.5

Then OUTPUTA-LINK

Else OUTPUTN-LINK

Statement 4

Comments | DSL12 active after call delay sets output MOVA12.

If FDET-DSL12

Then OUTPUTA-MDET12

Else OUTPUTN-MDET12

Statement 5

Comments | ECC raw state drives DUMECC.

If RDET-ECC13

Then OUTPUTA-MDET13

Else OUTPUTN-MDET13

Statement 6

Comments | Bleeper driver enable.

If STOPD-F **And** TTFLAG-1

Then PHSALLOW-G

Special conditioning statements

Statement 7

Comments | Bleeper driver disable.

If STOPD-F **And not** TTFLAG-1
Then PHSINHIB-G

Statement 8

Comments | DIN10 UD LOOP ACTIVE SETS OUTPUT MDET10

If FDET-DIN10
Then OUTPUTA-MDET10
Else OUTPUTN-MDET10

Statement 9

Comments | MANUAL MODE ACTIVE AND SCB1 SET THEN INHIBIT STAGE 3 FROM APPEARING.

If MANMODE-1 **And** SCBITS-1
Then STGINHIB-1.3
Else STGALLOW-1.3

Statement 10

Comments | MOVA Mode inactive starts CRBTOG and CRBDLY timers

If UTCMODE-1 **Not**
Then SCTSTART-CRBTOG SCTSTART-CRBDLY
Else SCTSTOP-CRBDLY

Statement 11

Comments | CRBDLY timer expired and MOVA mode still inactive starts CRBTOG timer and CRBDLY timer

If SCTEXPRD-CRBDLY **And not** UTCMODE-1
Then SCTSTART-CRBTOG SCTSTART-CRBDLY

Statement 12

Comments | CRB Toggle

If SCTRUNNG-CRBTOG **Or** STMNT-15
Then OUTPUTA-CRB
Else OUTPUTN-CRB

Special conditioning statements

Statement 13

Comments If F6 active then start F6OVR timer

If UTCBIT-F6
Then SCTSTART-F6OVR
Else SCTSTOP-F6OVR

Statement 14

Comments F6OVR timer expired and still F6 active then remove F6 and set F7 active

If SCTEXPRD-F6OVR **And** UTCBIT-F6
Then UTCBITI-F6 UTCBITA-F7
Else UTCBITN-F6 UTCBITI-F7

Statement 15

Comments PART TIME INHIBIT SWITCH DISABLES MOVA MODE

If SCBITS-255 **Or** MANIP-PTI
Then UTCI-1
Else UTCN-1

Statement 16

Comments PHASE DEMAND FOR PHASE F WILL DET MDET 14 ACTIVE

If PHSDMD-F
Then OUTPUTA-MDET14
Else OUTPUTN-MDET14

Statement 17

Comments PHASE D GREEN SETS OUTPUT GD ACTIVE

If PHASE-D
Then OUTPUTA-GD
Else OUTPUTN-GD

Red lamp monitoring data 1

Auto clear red lamp warnings

Yes

Red lamp monitor type

Other

Red lamp monitoring data 2

Stream based data					
Stream no.	Shutdown required	Red flt. extension	Single red lamp fault input name	Multiple red lamp fault input name	Inhibit stages
1	No	2.0			3

Red lamp monitoring data 3

Second red failure phase data	
Phase Id	Inhibited phases
A	F,G
B	F,G
C	F,G
D	F,G
E	
F	
G	
DA	

ILM data

Fault indications		Mains unstable indications output(s)	
Auto clear red lamp warnings	Yes		
Flash DFM for lamp conflict	No		
Flash DFM for lamp failure	No		
Unstable toroid indication (as lamp failure)	Yes		

Phase	Lamp Types			Single fault	Multi faults	Failure indication output	Conflict indication output(s)
	Green	Amber	Red				
A	LED (3G)	LED (3G)	LED (3G)	1	2	LF	
B	LED (3G)	LED (3G)	LED (3G)	1	2	LF	
C	LED (3G)	LED (3G)	LED (3G)	1	2	LF	
D	LED (3G)	LED (3G)	LED (3G)	1	2	LF	
E	LED (3G)	LED (3G)	Unmonitored	0	0	LF	
F	Unmonitored	Unmonitored	Unmonitored	0	0		
G	Unmonitored	Unmonitored	Unmonitored	0	0		

Input data

Input No.	Input name	Source	Comment
0	CRB	Virtual	
1	G1	Virtual	
2	G2	Virtual	
3	G3	Virtual	
4	G4	Virtual	
5	G5	Virtual	
6	G6	Virtual	
7	GD	Virtual	MOVA GREEN PHASE D
8	TO01	Virtual	
9	F01	Virtual	
10	F02	Virtual	
11	F03	Virtual	
12	F04	Virtual	
13	F05	Virtual	
14	F06	Virtual	
15	F07	Virtual	
16	HI	Virtual	
17	SP	Virtual	
18	FAULT	Virtual	
19	MDET10	Virtual	MOVA DET 10 DIN10 UD OPERATION
20	MDET12	Virtual	MOVA DET 12 DSL12 CALL DELAY
21	MDET13	Virtual	MOVA DET 13 ECC CALL/CANCEL
22	MDET14	Virtual	MOVA DET 14 PED DEMAND
0	*AIN1	Parallel	
1	*AX2	Parallel	
2	*ASL3	Parallel	
3	*BIN4	Parallel	
4	*BX5	Parallel	
5	*BSL6	Parallel	
6	*CIN7	Parallel	
7	*CX8	Parallel	
8	*CSL9	Parallel	
9	*DIN10	Parallel	
10	*DIN10-B	Parallel	
11	*DX11	Parallel	
12	*DSL12	Parallel	
13	*ECC13	Parallel	
14	*AIB1	Parallel	
15	*AIB2	Parallel	

Input data

Input No.	Input name	Source	Comment
16	*AOB1	Parallel	
17	*AOB2	Parallel	
18	*PBF	Parallel	
19	*FCLEAR	Parallel	

Output data

Output Number	Destination	Output name	Invert state	Comment
0	Virtual	CRB	No	
1	Virtual	G1	No	
2	Virtual	G2	No	
3	Virtual	G3	No	
4	Virtual	G4	No	
5	Virtual	G5	No	
6	Virtual	G6	No	
7	Virtual	GD	No	
19	Virtual	MDET10	No	DIN10 UD OPERATION
20	Virtual	MDET12	No	DSL12 AFTER CALL DELAY
21	Virtual	MDET13	No	ECC AFTER CALL DELAY
22	Virtual	MDET14	No	
0	Parallel	LINK	No	LINK TO PED
1	Parallel	LE	Yes	
2	Parallel	LF	Yes	
3	Parallel	DF	Yes	

Hardware data

Safety cards	
Number	Fitted
1	Yes
2	No

Loop Detector Cards		
Number	Fitted	Detectors
2	No	-
3	No	-
4	No	-

Safety card 1	
Phase Drive cards	
Number	Fitted
1	Yes
2	Yes
3	Yes
4	Yes
5	No
6	No
7	No
8	No
9	No
10	No
11	No
12	No
13	No
14	No
15	No
16	No

IO Cards	
Number	Card Type
1	Handset
2	IO 16/16
3	IO 16/16
4	Not Fitted
5	Not Fitted
6	Not Fitted
7	Not Fitted
8	Not Fitted

Loop Detector Cards		
Number	Fitted	Detectors
1	No	-

Virtual IO data

Bit No.	Bit name	Invert	Active	Comment
0	CRB	true	False	
1	G1	true	False	
2	G2	true	False	
3	G3	true	False	
4	G4	true	False	
5	G5	true	False	
6	G6	true	False	
7	GD	true	False	
8	TO01	False	False	
9	F01	False	False	
10	F02	False	False	
11	F03	False	False	
12	F04	False	False	
13	F05	False	False	
14	F06	False	False	
15	F07	False	False	
16	HI	False	False	
17	SP	False	False	
18	FAULT	False	False	
19	MDET10	False	False	
20	MDET12	False	False	
21	MDET13	False	False	
22	MDET14	False	False	

iMOVA interface

Stream Number	T bit	SP bit	Controller ready bit	HI bit	Fault bit
1	TO01	SP	CRB	HI	FAULT

iMOVA interface

Stream		0
Detector Number	Detector Name	
1	*AIN1	
2	*AX2	
3	*ASL3	
4	*BIN4	
5	*BX5	
6	*BSL6	
7	*CIN7	
8	*CX8	
9	*CSL9	
10	MDET10	
11	*DX11	
12	MDET12	
13	MDET13	
14	MDET14	
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
34		
35		
36		
37		
38		

Stream		0
Detector Number	Detector Name	
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		

iMOVA interface

Stream	0
Force Bit	Name
1	F01
2	F02
3	F03
4	F04
5	F05
6	F06
7	
8	
9	
10	

iMOVA interface

Stream	0
Stage Confirm Bit	Name
1	G1
2	G2
3	G3
4	G4
5	G5
6	G6
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

iMOVA interface

Stream	0
Phase Confirm Bit	Name
1	GD
2	
3	
4	
5	
6	
7	
8	