

Conserving Load Diversity in Load Managed Areas

Historically, diversity of the switching times for off-peak heating loads has been encouraged by the use of multiple “Standard Settlement Configurations” (SSC). Many of these SSCs are controlled using the Radio-Teleswitch System (RTS). RTS is now a legacy system and will soon become unavailable, possibly as early as 01/04/2021.

An uncontrolled move away from RTS has the potential to cause problems in locations such as the Scilly Isles, particularly when the network is running in “Island Mode” and not connected to the mainland. The risk is that many consumers all end up with new metering systems programmed to switch heating on at the same moment, resulting in load building up faster than the local generators can react to accommodate this.

Properties that are likely to contribute towards this problem are to be identified by assigning special “Line Loss Factor Codes” (LLFCs) to their details held in the National Databases. These LLFCs will alert Electricity Suppliers that any automatic load switching carried out by replacement metering equipment must be programmed by reference to the following table;

Line Loss Factor Class Id	Line Loss Factor Class Description	Profile Class	Legacy SSC	New SSC	NewTPR	Switching Times	Switch Action
L21	LMA E7 PC2 SSC0151	2	SSC0151 SSC0183 SSC0184	SSC0151	00043	0730-0030 (Day Rate)	Switched Load Off
					00210	0030-0730 (Night Rate)	Switched Load On
L22	LMA E7 PC2 SSC0986	2	SSC0176 SSC0178	SSC0986	00519	0000-0200, 0700-2200 (Day Rate)	Switched Load Off
					00520	0200-0700, 2200-2400 (Night Rate)	Switched Load On
L23	LMA E7 PC2 SSC0987	2	SSC0177	SSC0987	00521	0200-0400, 0900-2400 (Day Rate)	Switched Load Off
					00522	0000-0200, 0400-0900(Night Rate)	Switched Load On
L24	LMA E7 PC2 SSC0244	2	SSC0244 SSC0186 SSC0179	SSC0244	00040	0700-2400 (Day Rate)	Switched Load Off
					00206	0000-0700 (Night Rate)	Switched Load On
L41	LMA E7 PC4 SSC0151	4	SSC0151 SSC0183 SSC0184	SSC0151	00043	0730-0030 (Day Rate)	Switched Load Off
					00210	0030-0730 (Night Rate)	Switched Load On
L42	LMA E7 PC4 SSC0986	4	SSC0176 SSC0178	SSC0986	00519	0000-0200, 0700-2200 (Day Rate)	Switched Load Off
					00520	0200-0700, 2200-2400 (Night Rate)	Switched Load On
L43	LMA E7 PC4 SSC0987	4	SSC0177	SSC0987	00521	0200-0400, 0900-2400 (Day Rate)	Switched Load Off
					00522	0000-0200, 0400-0900(Night Rate)	Switched Load On
L44	LMA E7 PC4 SSC0244	4	SSC0244 SSC0186 SSC0179	SSC0244	00040	0700-2400 (Day Rate)	Switched Load Off
					00206	0000-0700 (Night Rate)	Switched Load On

The Profile Class 2 LLFCs in the above table will be treated in DUOS Billing and Loss Adjustment Factor calculations exactly as for DUOS Charge Code 30 (SWEB LLFC 30). This means that the following valid combinations of LLFC/PC/MTC/SSC/TPR have been created in Market Domain Data;

Description	LLFC	PC	MTC	LAF Type	SSC	Market	DUoS Charge Code	TPR 1	TPR 2
Domestic Two Rate	L21	2	42, 552, 573, 580, 811, 812, 874	LLC	0151	NHH Import	30	00043	00210
Domestic Two Rate	L21	2	38, 548	LLC	0183	NHH Import	30	01147	01148
Domestic Two Rate	L21	2	39, 549	LLC	0184	NHH Import	30	01149	01150
Domestic Two Rate	L22	2	31, 541	LLC	0176	NHH Import	30	01124	01125
Domestic Two Rate	L22	2	33, 543	LLC	0178	NHH Import	30	01128	01129
Domestic Two Rate	L22	2	807, 808, 874	LLC	0986	NHH Import	30	00519	00520
Domestic Two Rate	L23	2	32, 542	LLC	0177	NHH Import	30	01126	01127
Domestic Two Rate	L23	2	807, 808, 874	LLC	0987	NHH Import	30	00521	00522
Domestic Two Rate	L24	2	42, 552, 573, 580, 807, 808, 874	LLC	0244	NHH Import	30	00040	00206
Domestic Two Rate	L25	2	41, 551	LLC	0186	NHH Import	30	01153	01154
Domestic Two Rate	L26	2	34, 544	LLC	0179	NHH Import	30	01139	01140

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The Profile Class 4 LLFCs in the table on page 1 will be treated in DUOS Billing and Loss Adjustment Factor calculations exactly as for DUOS Charge Code 210 (SWEB LLFC 210). This means that the following valid combinations of LLFC/PC/MTC/SSC/TPR have been created in Market Domain Data;

Description	LLFC	PC	MTC	LAF Type	SSC	Market	DUoS Charge Code	TPR 1	TPR 2
Small Non Domestic Two rate	L41	4	42, 874, 890,	LLC	0151	NHH Import	210	00043	00210
Small Non Domestic Two rate	L41	4	38, 548	LLC	0183	NHH Import	210	01147	01148
Small Non Domestic Two rate	L41	4	39, 549	LLC	0184	NHH Import	210	01149	01150
Small Non Domestic Two rate	L42	4	31, 541	LLC	0176	NHH Import	210	01124	01125
Small Non Domestic Two rate	L42	4	33, 543	LLC	0178	NHH Import	210	01128	01129
Small Non Domestic Two rate	L42	4	807, 808, 874	LLC	0986	NHH Import	210	00519	00520
Small Non Domestic Two rate	L43	4	32, 542	LLC	0177	NHH Import	210	01126	01127
Small Non Domestic Two rate	L43	4	807, 808, 874	LLC	0987	NHH Import	210	00521	00522
Small Non Domestic Two rate	L44	4	42, 552, 573, 580, 807, 808, 874	LLC	0244	NHH Import	210	00040	00206
Small Non Domestic Two rate	L44	4	41, 551	LLC	0186	NHH Import	210	01153	01154
Small Non Domestic Two rate	L44	4	34, 544	LLC	0179	NHH Import	210	01139	01140

(Please be aware that above combinations involving SSC 0986 and SSC 0987 with MTC 874 are valid in MDD Effective from 27/02/2020. Combinations involving SSC 0986 and 0987 with MTC 807 and MTC 808 are valid effective from 22/04/2020.)