



# Digital Switchover Transmitter Details

STV Central Region

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# Digital Switchover Transmitter Details: STV Central Region

This document contains details of the transmission characteristics which the television transmitter network will adopt at digital switchover. Details for pre-switchover digital transmitters are available on the Ofcom website ([www.ofcom.org.uk](http://www.ofcom.org.uk)).

This information is primarily intended to help systems installers make initial preparations for switchover by highlighting those transmitters where frequency allocations and aerial group requirements are likely to change.

A key to column headings is provided in the Glossary.

Please note that although we anticipate that this frequency plan will remain relatively stable in the run-up to switchover, it may prove necessary to make changes to some aspects of the plan with the aim of maximising coverage across the UK. If you would like to be kept informed of any changes, please join our digital transmitter mailing list by sending an email to [broadcast.technical@ofcom.org.uk](mailto:broadcast.technical@ofcom.org.uk), with the word 'subscribe' as the message subject.

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## Black Hill transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Black Hill</b>	<b>NS831645</b>	<b>46</b>	<b>100kW</b>	<b>43</b>	<b>100kW</b>	<b>40</b>	<b>100kW</b>	<b>BH</b>	<b>BH</b>	<b>40</b>	<b>46</b>	<b>43</b>	<b>50</b>	<b>37</b>
Abington	NS938221	60	2W	57	2W	53	2W	C/DH	C/DH	57	63	60	53	
Biggar	NT016325	28	100W	25	100W	22	100W	AV	AV	22	28	25	32	
Bridge of Allan	NS792985	26	5W	23	5W	29	5W	AV	AV	33	26	23	29	
Broughton	NT129355	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Callander	NN671063	28	20W	25	20W	22	20W	AV	AV	22	28	25	32	
Cathcart	NS565616	60	2W	57	2W	53	2W	C/DV	C/DV	57	63	60	53	
Clachan	NR766563	43	2W	46	2W	40	2W	BV	BV	40	46	43	50	
Cumbernauld Village <sup>a</sup>	NS754761	49	2W	58	2W	54	2W	C/DV	C/DV	58	64	61	54	
Deanston	NN712022	60	2W	53	2W	57	2W	C/DV	C/DV	53	60	63	57	
Dollar <sup>b</sup>	NS950984	49	2W	58	2W	54	2W	C/DV	C/DV	58	64	61	54	
Dunoon	NS167771	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Easdale <sup>c</sup>	NM754168	40	2W	46	2W	43	2W	BV	BV	39	45	49	42	
Fintry	NS597889	27	4W	24	4W	21+	4W	AV	AV	34	27	24	31	
Gigha Island	NR643480	41+	12W	44	12W	47	12W	BV	BV	51	44	41	47	
Glasgow West Central <sup>d</sup>	NS565682	50	6W	59	6W	55	6W	C/DV	C/DV	68	62	56	66	

<sup>a</sup> Cumbernauld Village BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>b</sup> Dollar BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>c</sup> Easdale BBC A will temporarily operate on channel 50 between the first and second stages of switchover

<sup>d</sup> Glasgow West Central BBC A will temporarily operate on channel 62- between the first and second stages of switchover

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Glespin <sup>e</sup>	NS821286	49	2W	58	2W	54	2W	C/DV	C/DV	58	64	61	54	
Haddington <sup>f</sup>	NT538736	49	4W	58	4W	54	4W	C/DV	C/DV	58	64	61	54	
Kelvindale	NS555692	52	2W	56	2W	48	2W	C/DV	WV	34	52	30	48	
Killlearn <sup>g</sup>	NS484848	50	100W	59	100W	55	100W	C/DV	C/DV	65	62	59	55	
Kilmacolm	NS343691	27	6W	24	6W	21+	6W	AV	AV	21	27	24	31	
Kirkconnel <sup>h</sup>	NS745149	49	50W	58	50W	54	50W	C/DV	C/DV	58	64	61	54	
Kirkfieldbank <sup>i</sup>	NS862443	50	2W	59	2W	55	2W	C/DV	C/DV	57	63	60	53	
Largs	NS209594	45	5W	42	5W	39	5W	BH	BH	39	45	42	49	
Leadhills <sup>j</sup>	NS884149	49	2W	58	2W	54	2W	C/DV	C/DV	58	64	61	54	
Millport <sup>k</sup>	NS166557	49	2W	58	2W	54	2W	C/DH	C/DH	58	64	61	54	
Netherton Braes	NS581575	27	2W	24	2W	21+	2W	AV	AV	22	28	25	32	
New Cumnock	NS612130	43	2W	46	2W	50	2W	BV	BV	40	46	43	50	
Ravenscraig HP	NS252755	27	2W	24	2W	21+	2W	AH	AH	21	27	24	31	
Ravenscraig VP	NS252755	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Rothesay	NS125690	28	400W	25	400W	22	400W	AV	AV	22	28	25	32	
Rothesay Town <sup>l</sup>	NS082648	50	2W	59	2W	55	2W	C/DV	C/DV	55	62	59	65	

<sup>e</sup> Glespin BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>f</sup> Haddington BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>g</sup> Killlearn BBC A will temporarily operate on channel 62- between the first and second stages of switchover

<sup>h</sup> Kirkconnel BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>i</sup> Kirkfieldbank BBC A will temporarily operate on channel 62- between the first and second stages of switchover

<sup>j</sup> Leadhills BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>k</sup> Millport BBC A will temporarily operate on channel 61 between the first and second stages of switchover

<sup>l</sup> Rothesay Town BBC A will temporarily operate on channel 62- between the first and second stages of switchover

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
South Knapdale	NR837748	60-	365W	57	365W	53	365W	C/DV	C/DV	57	63	60	53	
Strachur	NN094027	23	6W	26	6W	29	6W	AV	AV	33	26	23	29	
Strathblane	NS555789	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Strathyre	NN559170	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Strathyre Link	NN581170	46	0.13W	43	0.13W	40	0.13W	BV	BV	40	46	43	50	
Tarbert	NR857680	24	2W	21+	2W	27	2W	AV	AV	21	27	24	31	
Tighnabruaich	NR993743	45	18W	49	18W	42	18W	BV	BV	39	45	49	42	
Tillicoultry	NS925970	60	2W	57	2W	53	2W	C/DV	C/DV	57	63	60	53	
Twechar	NS695754	28	2W	25	2W	22	2W	AV	AV	22	28	25	32	
Uplawmoor <sup>m</sup>	NS436563	49	5W	58	5W	54	5W	C/DV	C/DV	58	64	61	54	
West Kilbride	NS214483	44+	200W	41+	200W	47+	200W	BV	BV	51	44	41	47	

### Black Hill transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Black Hill</b>	<b>NS831645</b>	<b>41+</b>	<b>100kW</b>	<b>44</b>	<b>100kW</b>	<b>47</b>	<b>100kW</b>	<b>BH</b>	<b>BH</b>	<b>40</b>	<b>46</b>	<b>43</b>	<b>50</b>	<b>37</b>

<sup>m</sup> Uplawmoor BBC A will temporarily operate on channel 61 between the first and second stages of switchover

### Craigkelly transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Craigkelly</b>	<b>NT233872</b>	<b>27</b>	<b>20kW</b>	<b>24</b>	<b>20kW</b>	<b>21+</b>	<b>20kW</b>	<b>WH</b>	<b>AH</b>	<b>31</b>	<b>27</b>	<b>24</b>	<b>21</b>	<b>48</b>
Aberfoyle	NS523990	55	18W	50	18W	59	18W	C/DV	C/DV	58	64	61	54	
Canongate HP <sup>n</sup>	NT263736	55	3W	50	3W	59	3W	C/DH	C/DH	58	64	61	54	
Canongate VP <sup>n</sup>	NT263736	55	3W	50	3W	59	3W	C/DV	C/DV	58	64	61	54	
Grangemouth	NS921795	53	2W	60	2W	57	2W	C/DV	C/DV	57	63	60	53	
Kinross	NT097996	59	25W	50	25W	55	25W	C/DV	C/DV	61	67	64	54	
Newbattle <sup>o</sup>	NT324651	50	2W	59	2W	55	2W	C/DV	C/DV	55	62	59	65	
Penicuik	NT252590	54	400W	49	400W	58	400W	C/DV	C/DV	58	64	61	54	
West Linton	NT164507	29	5W	23	5W	26	5W	AV	AV	33	26	23	29	

### Craigkelly transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Craigkelly</b>	<b>NT233872</b>	<b>42</b>	<b>10kW</b>	<b>45</b>	<b>10kW</b>	<b>39+</b>	<b>10kW</b>	<b>WH</b>	<b>AH</b>	<b>31</b>	<b>27</b>	<b>24</b>	<b>21</b>	<b>48</b>

<sup>n</sup> Cannongate (HP & VP) BBC A will temporarily operate on channel 62 between the first and second stages of switchover.

<sup>o</sup> Newbattle BBC A will temporarily operate on channel 62- between the first and second stages of switchover.

## Darvel transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Darvel</b>	<b>NS557341</b>	<b>22-</b>	<b>20kW</b>	<b>25</b>	<b>20kW</b>	<b>28</b>	<b>20kW</b>	<b>AH</b>	<b>AH</b>	<b>33</b>	<b>26</b>	<b>23</b>	<b>29</b>	<b>35</b>
Ardentinny	NS186863	44	14W	41+	14W	47	14W	BV	BV	39	45	49	52	
Arrochar	NN288046	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Ayr South	NS355188	45	2W	39	2W	42	2W	BH	BH	51	44	41	47	
Blackwaterfoot	NR912291	43	8W	46	8W	50	8W	BV	BV	40	46	43	50	
Bowmore HP	NR318590	47	10W	41+	10W	44	10W	BH	BH	39	45	49	42	
Bowmore VP	NR318590	47	13W	41+	13W	44	13W	BV	BV	39	45	49	42	
Campbeltown	NR707192	60	25W	57	25W	53	25W	C/DV	C/DV	57	63	60	53	
Carradale	NR817376	44	6W	41+	6W	47	6W	BV	BV	51	44	41	47	
Catrine	NS528255	50 <sup>P</sup>	2W	59	2W	55	2W	C/DV	C/DV	55	62	59	65	
Claonaig	NR876565	50 <sup>P</sup>	15W	59	15W	55	15W	C/DV	C/DV	55	62	59	65	
Dunure	NS250150	46	2W	43	2W	40	2W	BV	BV	40	46	43	50	
Girvan	NX211981	50 <sup>P</sup>	50W	59	50W	55	50W	C/DV	C/DV	55	62	59	65	
High Keil	NR680082	44	4W	47	4W	41+	4W	BV	BV	51	44	47	41	
Holmhead	NS566199	44	2W	41+	2W	47	2W	BV	BV	51	44	41	47	
Kirkmichael	NS354068	45	4W	49	4W	42	4W	BV	BV	39	45	49	52	
Kirkoswald HP	NS231075	28	7W	25	7W	22	7W	AH	AH	22	28	25	32	
Kirkoswald VP	NS231075	28	8W	25	8W	22	8W	AV	AV	22	28	25	32	
Lethanhill	NS438105	60	50W	57	50W	53	50W	C/DV	C/DV	57	63	60	53	

<sup>P</sup> Between the first and second stages of switchover at Catrine, Claonaig, and Girvan, BBC A will use channel 62-

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Lochgoilhead	NS194978	53	2W	57	2W	60	2W	C/DV	C/DV	57	63	53	60	
Lochgoilhead AD	NS190977	22-	0.02W	25	0.02W	28	0.02W	AV	AV	33	26	23	29	
Lochwinnoch	NS337582	60	17W	57	17W	53	17W	C/DH	C/DH	57	63	60	53	
Millburn Muir	NS378796	42	50W	45	50W	39	50W	BV	BV	39	52	42	49	45
Muirkirk	NS710267	44	20W	41+	20W	47	20W	BV	BV	51	44	41	47	
Port Ellen	NR339452	25	30W	22	30W	28	30W	AV	AV	22	28	25	32	
Portnahaven	NR179523	23	2W	29	2W	26	2W	AV	AV	33	26	23	29	
Sorn	NS558260	46	2W	43	2W	40	2W	BV	BV	40	46	43	50	
Troon	NS324314	49 <sup>q</sup>	4W	58	4W	54	4W	C/DV	C/DV	58	64	61	54	
Wanlockhead	NS874126	44	2W	47	2W	41+	2W	BV	BV	51	44	47	41	

### Darvel transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Darvel</b>	<b>NS557341</b>	<b>23</b>	<b>10kW</b>	<b>26</b>	<b>10kW</b>	<b>29</b>	<b>10kW</b>	<b>AH</b>	<b>AH</b>	<b>33</b>	<b>26</b>	<b>23</b>	<b>29</b>	<b>35</b>

<sup>q</sup> Between the first and second stages of switchover at Troon, BBC A will use channel 61.

### Rosneath transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Rosneath HP</b>	<b>NS258811</b>	<b>61</b>	<b>8W</b>	<b>58</b>	<b>8W</b>	<b>54</b>	<b>8W</b>	<b>C/DH</b>	<b>C/DH</b>	<b>58</b>	<b>64</b>	<b>61</b>	<b>54</b>	
<b>Rosneath VP</b>	<b>NS258811</b>	<b>61</b>	<b>2kW</b>	<b>58</b>	<b>2kW</b>	<b>54</b>	<b>2kW</b>	<b>C/DV</b>	<b>C/DV</b>	<b>58</b>	<b>64</b>	<b>61</b>	<b>54</b>	
Ardnadam	NS167799	42	14W	45	14W	49	14W	BV	BV	51	44	41	47	
Garelochhead	NS235918	42	2W	45	2W	49	2W	BV	BV	51	44	41	47	

### Rosneath transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Rosneath HP</b>	<b>NS258811</b>	<b>53</b>	<b>8W</b>	<b>57</b>	<b>8W</b>	<b>60</b>	<b>8W</b>	<b>C/DH</b>	<b>C/DH</b>	<b>58</b>	<b>64</b>	<b>61</b>	<b>54</b>	
<b>Rosneath VP</b>	<b>NS258811</b>	<b>53</b>	<b>2kW</b>	<b>57</b>	<b>2kW</b>	<b>60</b>	<b>2kW</b>	<b>C/DV</b>	<b>C/DV</b>	<b>58</b>	<b>64</b>	<b>61</b>	<b>54</b>	

## Torosay transmitter group - Public Service Broadcaster (PSB) Multiplexes

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Torosay</b>	<b>NM703357</b>	<b>28</b>	<b>4kW</b>	<b>25</b>	<b>4kW</b>	<b>22</b>	<b>4kW</b>	<b>AV</b>	<b>AV</b>	<b>22</b>	<b>28</b>	<b>25</b>	<b>32</b>	
Acharacle	NM678695	46	2W	43	2W	50	2W	BV	BV	40	46	43	50	
Arisaig	NM669873	26	2W	23	2W	29	2W	AV	AV	33	26	23	29	
Ballachulish	NN059592	23	4W	29	4W	26	4W	AV	AV	33	26	23	29	
Bellanoch	NR804920	45	10W	42	10W	49	10W	BV	BV	39	45	42	49	
Castlebay	NL652979	27	2W	24	2W	21+	2W	AV	AV	21	27	24	31	
Cow Hill	NN112735	46	13W	43	13W	50	13W	BV	BV	40	46	43	50	
Dalmally	NN143260	44	8W	41+	8W	47	8W	BV	BV	51	44	41	47	
Dychliemore Link	NN138238	28	0.05W	25	0.05W	22	0.05W	AH	AH	22	28	25	32	
Fiunary	NM603468	46	10W	43	10W	50	10W	BV	BV	40	46	43	50	
Glengorm	NM466565	44+	1kW	41+	1kW	47+	1kW	BV	C/DV	56	52	48	54	
Kilmelford	NM816100	62-	15W	59	15W	55	15W	C/DV	C/DV	55	62	59	65	
Kinlochleven	NN178629	59	2W	55	2W	62-	2W	C/DV	C/DV	55	62	59	65	
Kintraw	NM830048	46	4W	43	4W	50	4W	BV	BV	40	46	43	50	
Loch Feochan	NM861256	54	8W	61	8W	58	8W	C/DV	C/DV	58	64	61	68	
Mallaig	NM676965	46-	4W	43-	4W	50	4W	BV	BV	43	46	40	50	
Oban	NM850289	44	2W	41+	2W	47	2W	BV	BV	51	44	41	47	
Onich HP	NN017618	61	0.9W	54	0.9W	58	0.9W	C/DV	C/DV	58	64	61	54	
Onich VP	NN017618	61	3W	54	3W	58	3W	C/DV	C/DV	58	64	61	54	
Spean Bridge	NN218819	27	14W	24	14W	21+	14W	AV	AV	21	27	24	31	
Strontian	NM830657	49	3W	45	3W	42	3W	BV	BV	42	49	39	45	

Site Name	NGR	BBC A		D3&4		BBC B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
Taynuilt	NM993313	46	2W	43	2W	50	2W	BV	BV	40	46	43	50	
Tayvallich	NR740866	46	2W	43	2W	50	2W	BV	BV	40	46	43	50	

### Torosay transmitter group - Commercial (COM) Multiplexes

Site Name	NGR	SDN		Arqiva A		Arqiva B		DSO Aerial Group	Pre-DSO Aerial Group	Analogue Frequencies				
		Channel	ERP	Channel	ERP	Channel	ERP			BBC1	BBC2	ITV1	C4	C5
<b>Torosay</b>	<b>NM703357</b>	<b>23</b>	<b>4kW</b>	<b>26</b>	<b>2kW</b>	<b>29</b>	<b>2kW</b>	<b>AV</b>	<b>AV</b>	<b>22</b>	<b>28</b>	<b>25</b>	<b>32</b>	

## Glossary

Site Name:	The name of the transmitter site. Primary transmitters in each transmitter group are highlighted in <b>bold</b> , with their dependent relays listed alphabetically below them. Public Service Broadcaster (PSB) and Commercial (COM) multiplexes are shown in separate tables.
NGR:	The location of the transmitter site, in Ordnance Survey National Grid Reference format.
Multiplex names:	The post-switchover name of the multiplex. See below for more details
Channel	The UHF channel number of the multiplex. The centre frequency, $F_c$ (in Megahertz) of the multiplex can be calculated using $F_c=8n+306$ , where $n$ is the UHF channel number. A + or - following the channel number indicates that the frequency is offset by +0.167MHz or -0.167MHz with respect to the channel centre. Channel numbers highlighted in red are likely to be affected in future by the clearance of channels 61 and 62: see the '800 MHz Clearance' section below.
ERP	The Effective Radiated Power of the multiplex, in watts (W) or kilowatts (kW)
DSO	Digital Switchover
DSO Aerial Group:	Suggested aerial group for reception of the 3 PSB multiplexes (and the 3 COM multiplexes, where broadcast) from this transmitter after digital switchover. See below for more information on aerial groups. The final character in this column indicates whether signals are horizontally (H) or vertically (V) polarised.
DSO Aerial Group Colour codes:	All DSO frequencies at this transmitter are re-assigned analogue frequencies. If aerials and cabling are in good condition, viewers should not need to replace them.
	One or more DSO frequencies were previously unused at this transmitter by analogue TV, but all DSO channels fall within the analogue aerial group. If aerials and cabling are in good condition, replacement should not be necessary. Some changes may be required to larger systems which contain channelised components, such as communal aerial (MATV / IRS) systems.
	One or more DSO frequencies were previously unused at this transmitter by analogue TV, and these also fall outside the existing analogue aerial group. Therefore a replacement aerial of a different group may be required. Some changes may be required to larger systems which contain channelised components, such as communal aerial (MATV / IRS) systems.
Pre-DSO Aerial Group:	Suggested aerial group for reception of analogue services from this transmitter. The aerial groups shown are based upon four-channel reception and do not take into account Channel 5's analogue frequencies where these are out of group.
Analogue channels:	The UHF channel numbers of the analogue services currently broadcast from this transmitter site. The nominal analogue vision carrier frequency, $F_v$ (in Megahertz) of the service can be calculated using $F_v=8n+303.25$ , where $n$ is the UHF channel number.
Single Frequency networks (SFNs)	In order to maximise digital coverage, some transmitter sites will operate as Single Frequency Networks (SFNs) at switchover. In an SFN, neighbouring transmitters use the same frequencies as each other.

## Multiplex Names

The naming convention for the six multiplexes changes at switchover, and the table below compares their pre-switchover and post-switchover designations:

Pre-Switchover Name	Post-Switchover Name	Operator
Multiplex 1	BBC A	BBC
Multiplex 2	D3&4	Digital 3 & 4
Multiplex A	SDN	SDN
Multiplex B	BBC B	BBC
Multiplex C	Arqiva A	Arqiva
Multiplex D	Arqiva B	Arqiva

## Aerial Groups

Television aerials are designed to operate most efficiently over a specific range of frequencies, as shown in the table below. For guidance, this document suggests a suitable aerial group for reception of the digital services from each transmitter. Where a transmitter uses a semi-wideband channel grouping (E or K), a wideband (W) aerial is also suggested as an alternative. The colour codes in the table below are often used by aerial manufacturers to aid identification of the aerial's group.

Aerial Group	Channels	Colour Code
A	21-37	Red
B	35-53	Yellow
C/D	48-68	Green
E	35-68	Brown
K	21-48	Grey
W	21-68	Black

## Transmission Mode

It is anticipated that the post-switchover transmission mode for all multiplexes except BBC B, will be 64QAM modulation, coding rate 2/3, & 8K FFT.

The BBC B multiplex will operate using the DVB-T2 standard (256QAM modulation, coding rate 2/3, & 32K FFT). Conversion to DVB-T2 will generally take place at DSO in each region.

## Transitional Transmission Characteristics

Transmission frequencies are intensively used in many parts of the UK. To avoid unnecessary interference being caused to viewers, a certain number of multiplexes will need to operate with 'transitional' transmission characteristics for a limited period following switchover at particular transmitters. These transitional characteristics are only likely to affect a small proportion of sites. For example, some channels may need to operate at slightly reduced power levels compared to the final post-switchover allocations shown in this booklet. This is primarily in order to prevent interference being caused to neighbouring transmitters which may not switch over until later in the regional sequence. Full power operation will be adopted when these interference constraints are removed, generally when the neighbouring transmitter or region switches over. Details of known transitional arrangements affecting individual transmitters are provided in footnotes.

## 800 MHz clearance

In order to align the frequencies released by digital switchover for alternative uses with those released by other European countries, UHF channels 61 and 62 will be 'cleared' of digital TV services over the coming years. UHF channels 39 and 40 (which were previously among the channels due to be released for other uses after switchover) will instead now be retained for TV broadcasting.

In order to minimise changes to domestic aerial groups, the general approach for adopting these changes is that multiplexes using channels 61 or 62 will move to channels 49 or 50, and some multiplexes using channels 49 or 50 will move to channels 39 or 40. Other channels may also be affected in some cases. The changes will either be carried out at digital switchover, or sometime after switchover completes (e.g. during 2013). If the changes are to be carried out at digital switchover, an updated version of this guide will be issued.

Multiplexes using channels 61, 62, 49, or 50 highlighted in red in this guide indicate that these allocations are likely to change in the future.

## Analogue Channel Changes

For practical engineering reasons, some analogue channel allocations may need to be altered in the period immediately before switchover begins at a particular transmitter. This may involve swapping the frequencies of some programme services. In other cases, a previously unused analogue frequency may need to be used temporarily to allow high-power digital broadcasts to begin. Viewers will be informed of any such channel changes by Digital UK and the broadcasters in the run up to switchover.

## Switchover Dates

Up-to-date information on switchover dates is available from Digital UK

[www.digitaluk.co.uk](http://www.digitaluk.co.uk).

## Transmitter Locations

Maps showing the location of TV transmitters within individual regions are available on Ofcom's website at:

<http://stakeholders.ofcom.org.uk/broadcasting/guidance/tech-guidance/>

## Document History

Version	Date	Details
1.0	4/11/2008	Document Issued
2.0	10/9/2009	Offsets added. Torosay transmitter group (previously part of Black Hill group) added. Ardnadam & Garelochhead moved to Rosneath transmitter group. Kirkconnel & New Cumnock moved to Black Hill Group. Channel allocations at Cathcart, Tarbert, Kirkfieldbank, Ardnadam changed. Removed Darvel's COM multiplex transitional power restrictions. Other minor editorial changes.
3.0	5/1/2011	Editorial changes to explanatory text. Onich HP added. Dunoon is now Dunoon Forest Road. Craiggelly Arqiva B frequency changed. Black Hill BBC B frequency changed. Torosay Arqiva A & B ERPs corrected. Initial 800MHz Clearance information added. Canongate NGR corrected.
4.0	25/5/2011	Channel changes due to 800 MHz Clearance at: Ayr South, Catrine, Claonaig, Dunure, Girvan, Millburn Muir, Sorn, Troon (relays of Darvel) Aberfoyle, Cannongate, Kinross, Newbattle, Penicuik (relays of Craiggelly) Clachan, Cumbernauld Village, Dollar, Easdale, Glasgow West Central, Glespin, Haddington, Killearn, Kirkconnel, Kirkfieldbank, Largs, Leadhills, Rothesay Town, Strathyre Link, Uplawmoor, (relays of Black Hill) Dunoon Forest Row reverted to Dunoon. Other minor editorial changes.

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