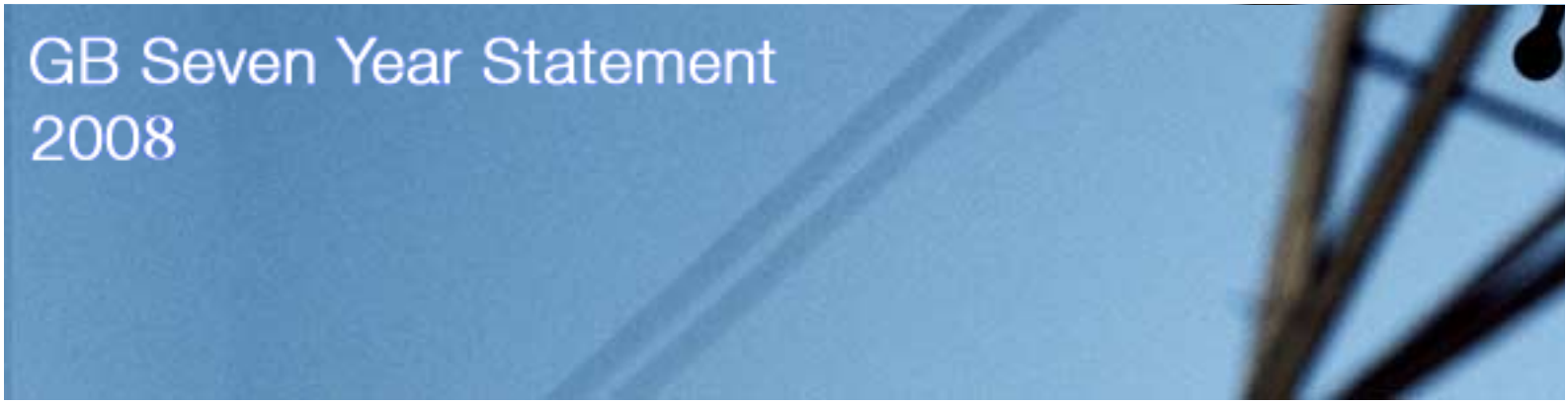
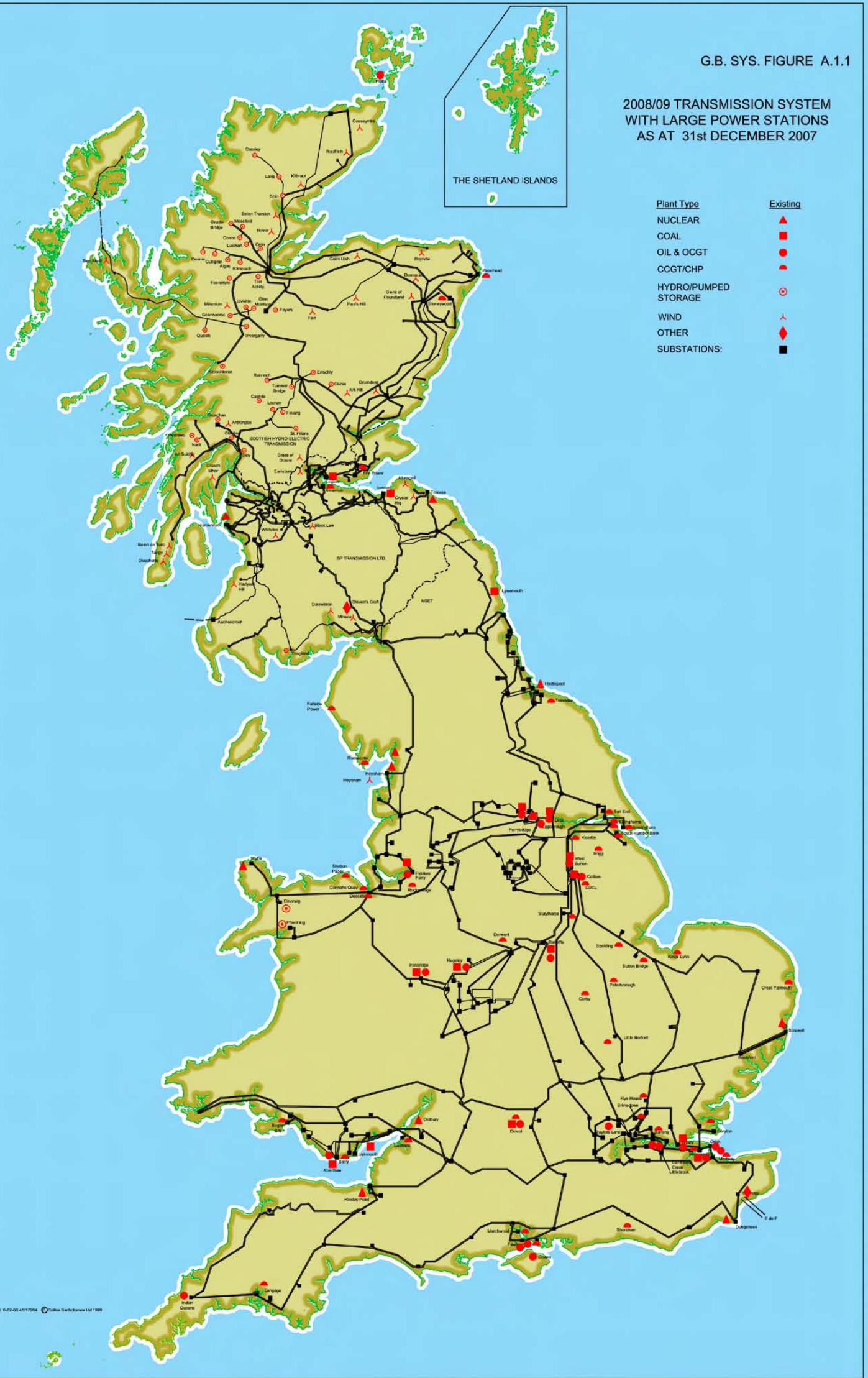
nationalgrid



Figures

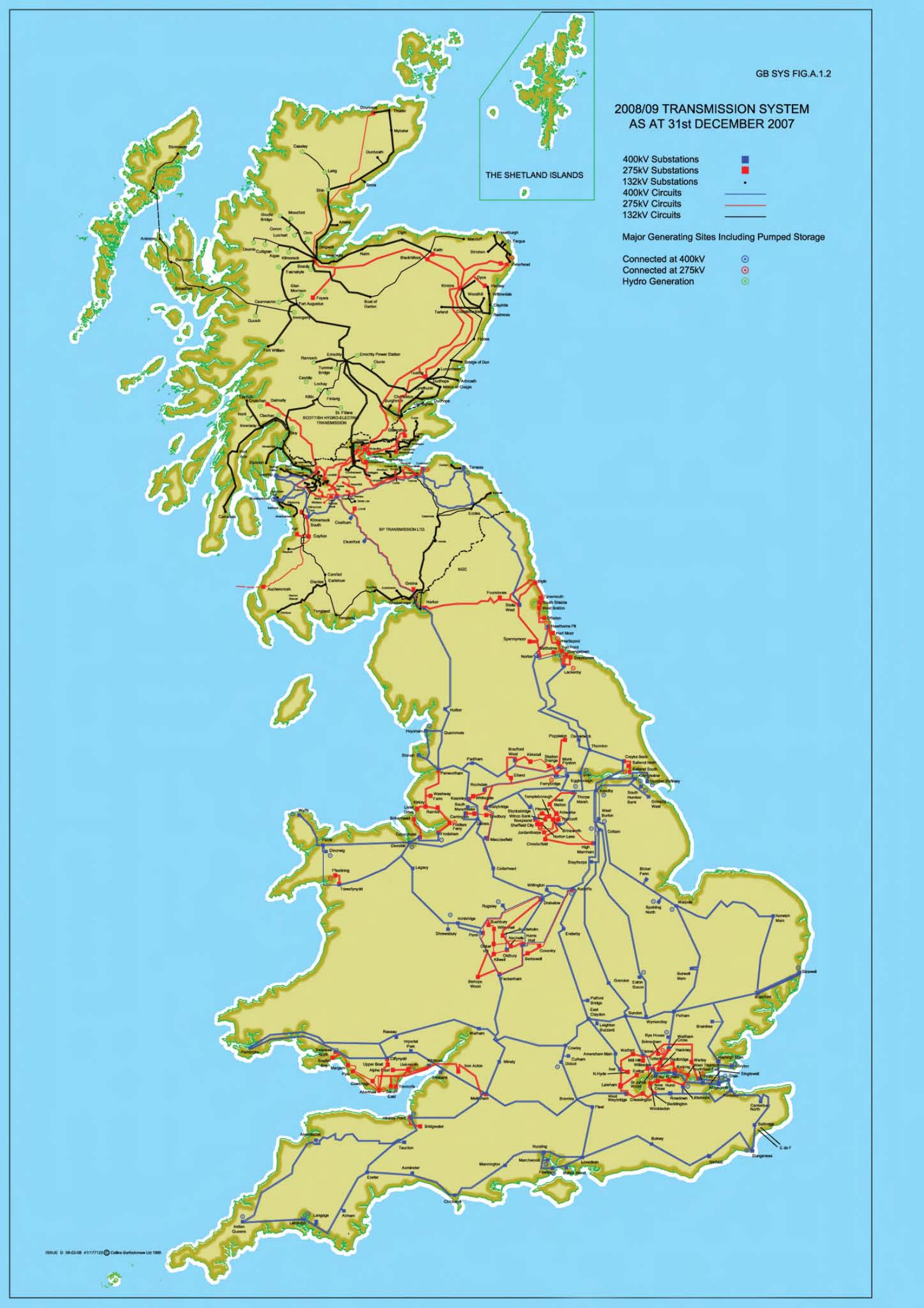
G.B. SYS. FIGURE A.1.1

2008/09 TRANSMISSION SYSTEM WITH LARGE POWER STATIONS AS AT 31st DECEMBER 2007



GB SYS FIG.A.1.2

2008/09 TRANSMISSION SYSTEM AS AT 31st DECEMBER 2007



GB SYS FIGURE A.1.3
GB GENERATION USE OF SYSTEM TARIFF ZONES 2008/09

400kV Substations
275kV Substations
132kV Substations
400kV Circuits
275kV Circuits
132kV Circuits

Major Generating Sites
Including Pumped Storage

Connected at 400kV
Connected at 275kV
Hydro Generation

DNO Boundaries

THE SHETLAND ISLANDS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SCOTTISH & SOUTHERN ENERGY

SCOTTISH HYDRO-ELECTRIC TRANSMISSION

SP TRANSMISSION LTD.

SCOTTISH POWER ENERGY NETWORKS

UNITED UTILITIES

CE ELECTRIC UK (NORTHERN)

CE ELECTRIC UK (YORKSHIRE)

CENTRAL NETWORKS (EAST MIDLANDS)

CENTRAL NETWORKS (WEST MIDLANDS)

EDF ENERGY (EAST OF ENGLAND)

EDF ENERGY (SOUTH COAST)

EDF ENERGY (LONDON)

WESTERN POWER DISTRIBUTION (SOUTH & WEST WALES)

WESTERN POWER DISTRIBUTION (SOUTH WEST)

G.B. SYS. FIGURE A.1.4

GB DEMAND USE OF SYSTEM TARIFF ZONES 2008/09

400kV Substations
275kV Substations
132kV Substations
400kV Circuits
275kV Circuits
132kV Circuits

Major Generating Sites
Including Pumped Storage

Connected at 400kV
Connected at 275kV
Hydro Generation

THE SHETLAND ISLANDS

1
2
3
4
5
6
7
8
9
10
11
12
13
14

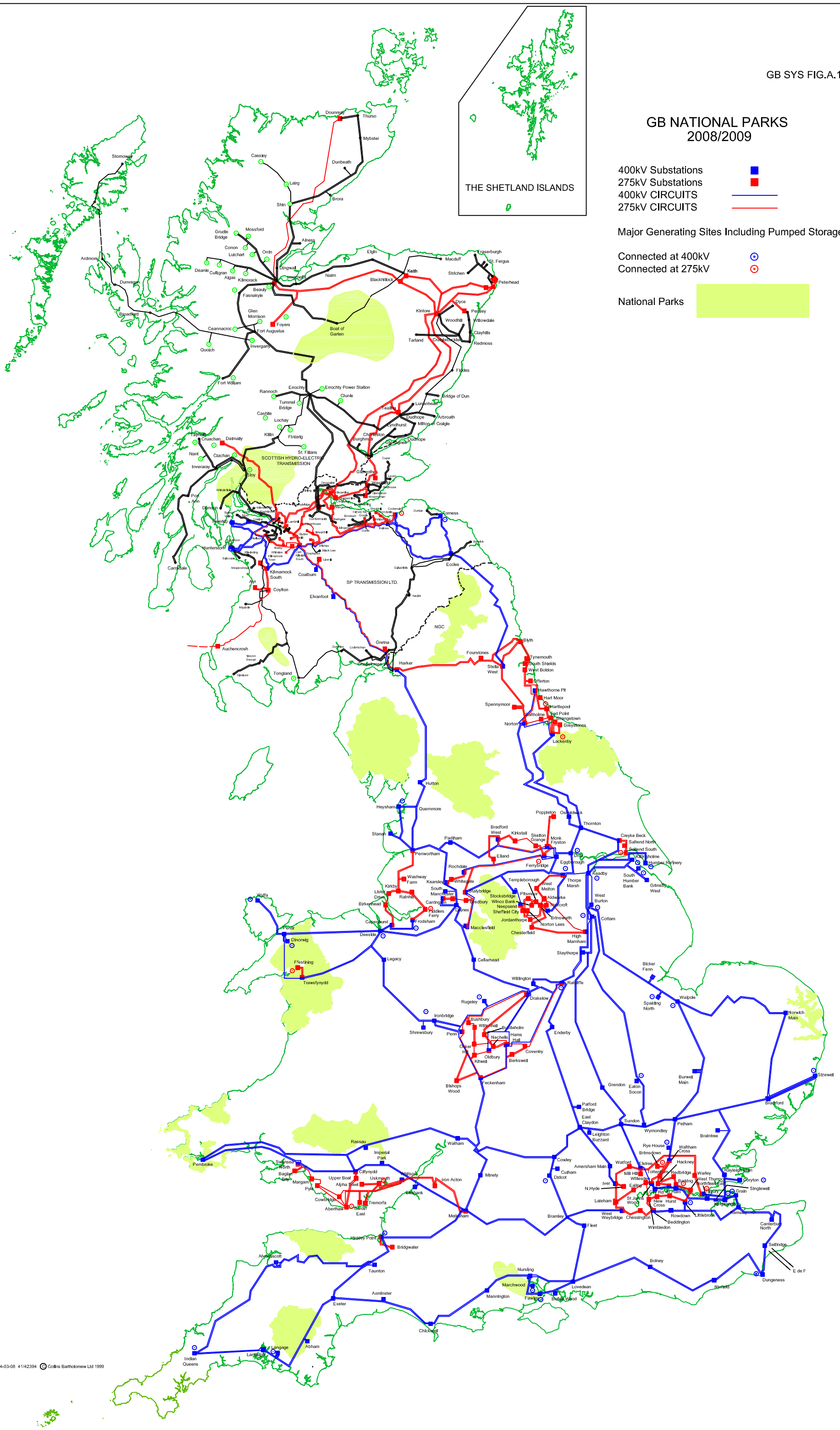
SCOTTISH HYDRO-ELECTRIC TRANSMISSION

SP TRANSMISSION LTD.

NGC

GB SYS FIG.A.1.5

GB NATIONAL PARKS 2008/2009



400kV Substations
275kV Substations
400kV CIRCUITS
275kV CIRCUITS

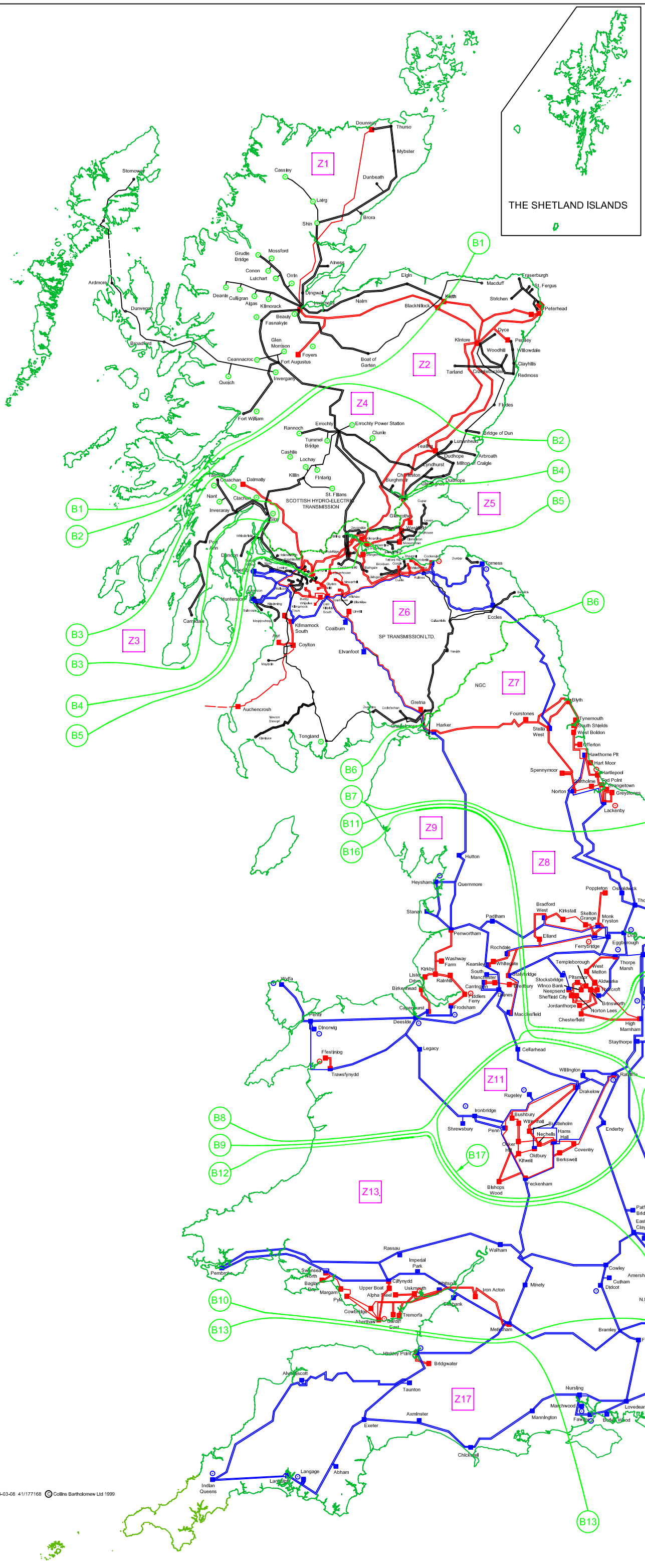
Major Generating Sites Including Pumped Storage

Connected at 400kV
Connected at 275kV

National Parks

GB SYS FIG.A.1.6

GB TRANSMISSION BOUNDARIES AND SYS STUDY ZONES 2008/09



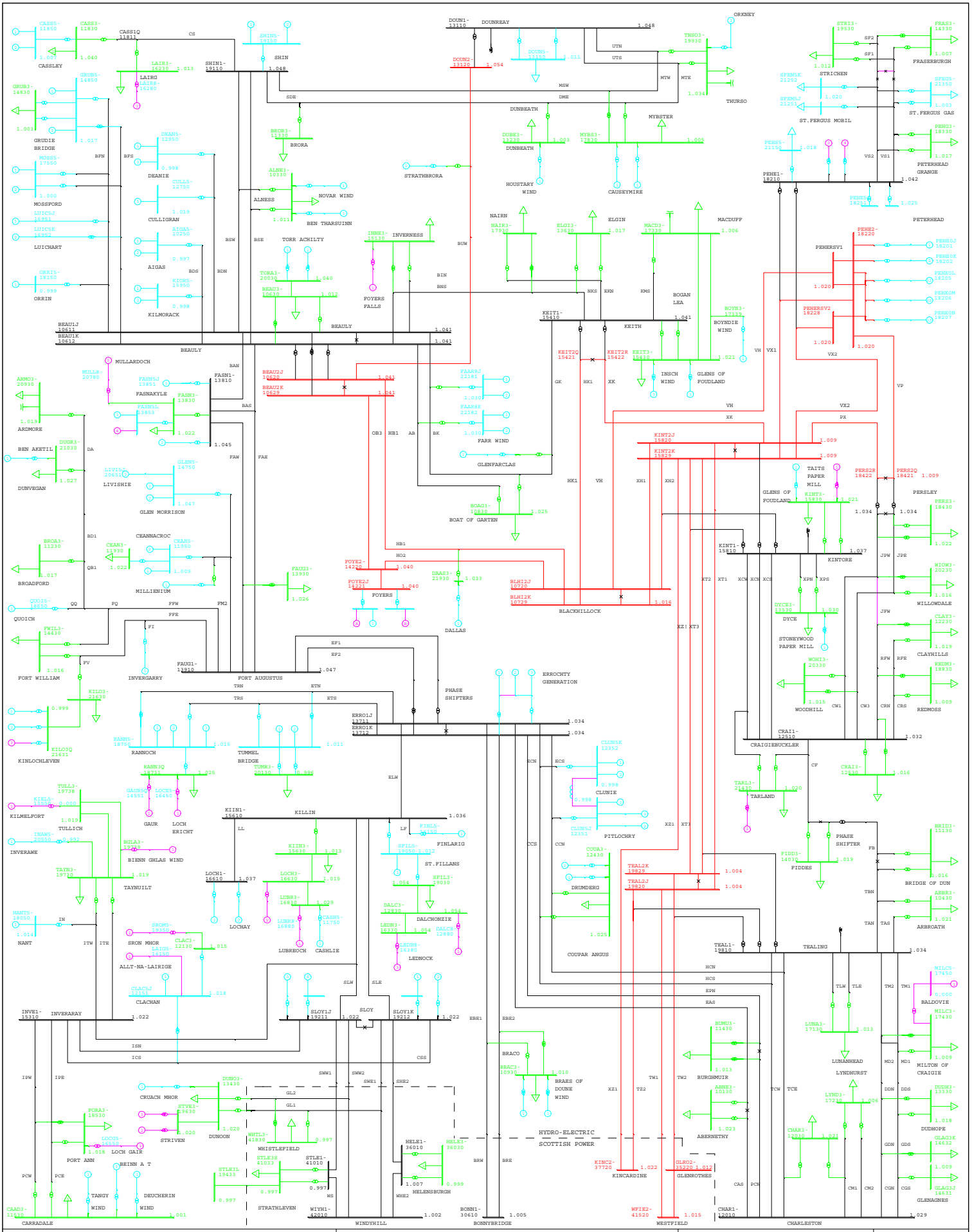
400kV Substations
275kV Substations
400kV CIRCUITS
275kV CIRCUITS

Major Generating Sites Including Pumped Storage

Connected at 400kV
Connected at 275kV
Hydro Generation

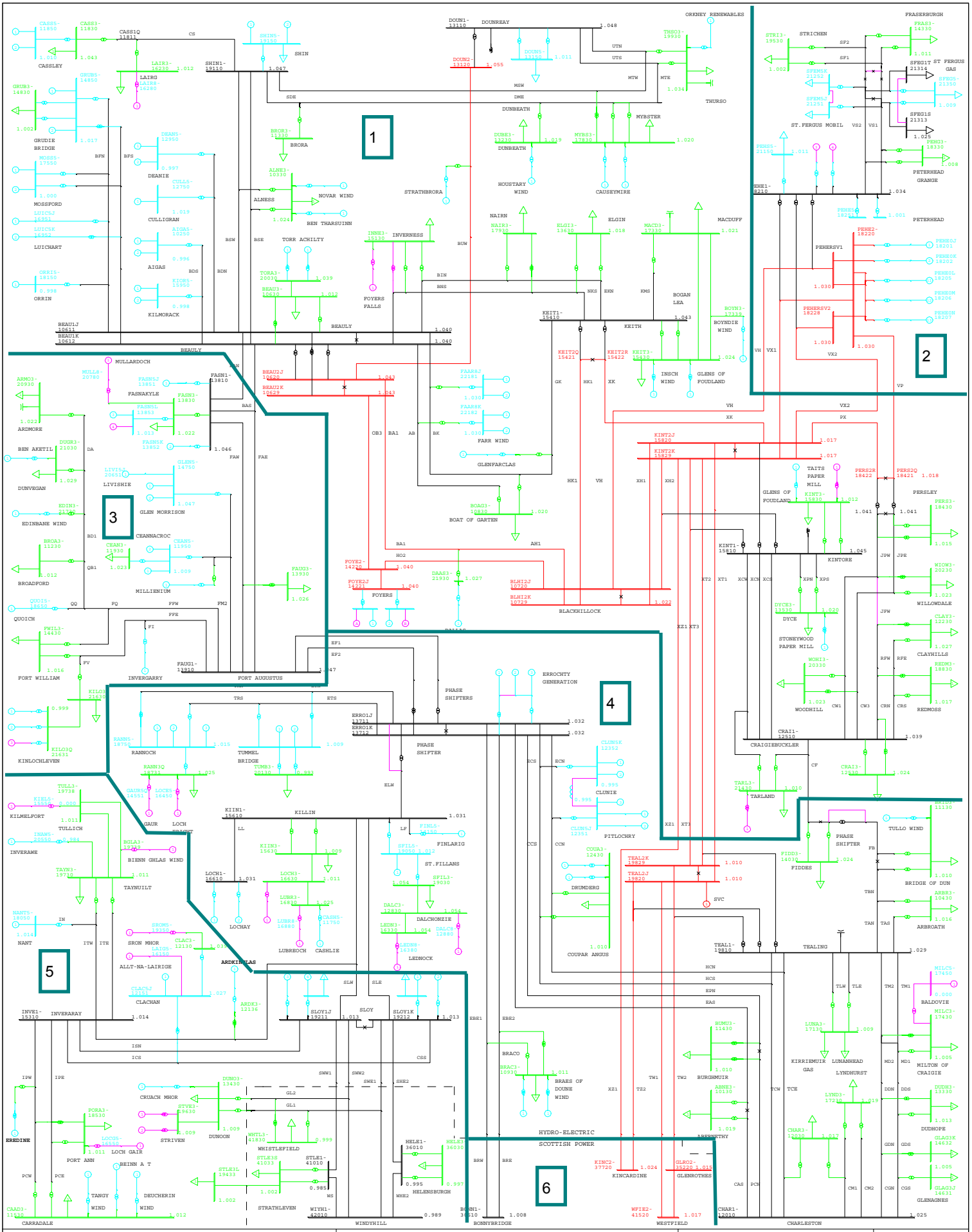
SYS Boundary — B

SYS Study Zones — Z



SCOTTISH HYDRO-ELECTRIC TRANSMISSION LTD SEVEN YEAR STATEMENT 2008	ELECTRICAL BUS LAYOUT 2007/08	FIGURE A.2.1

275KV
132KV
33KV
<33KV

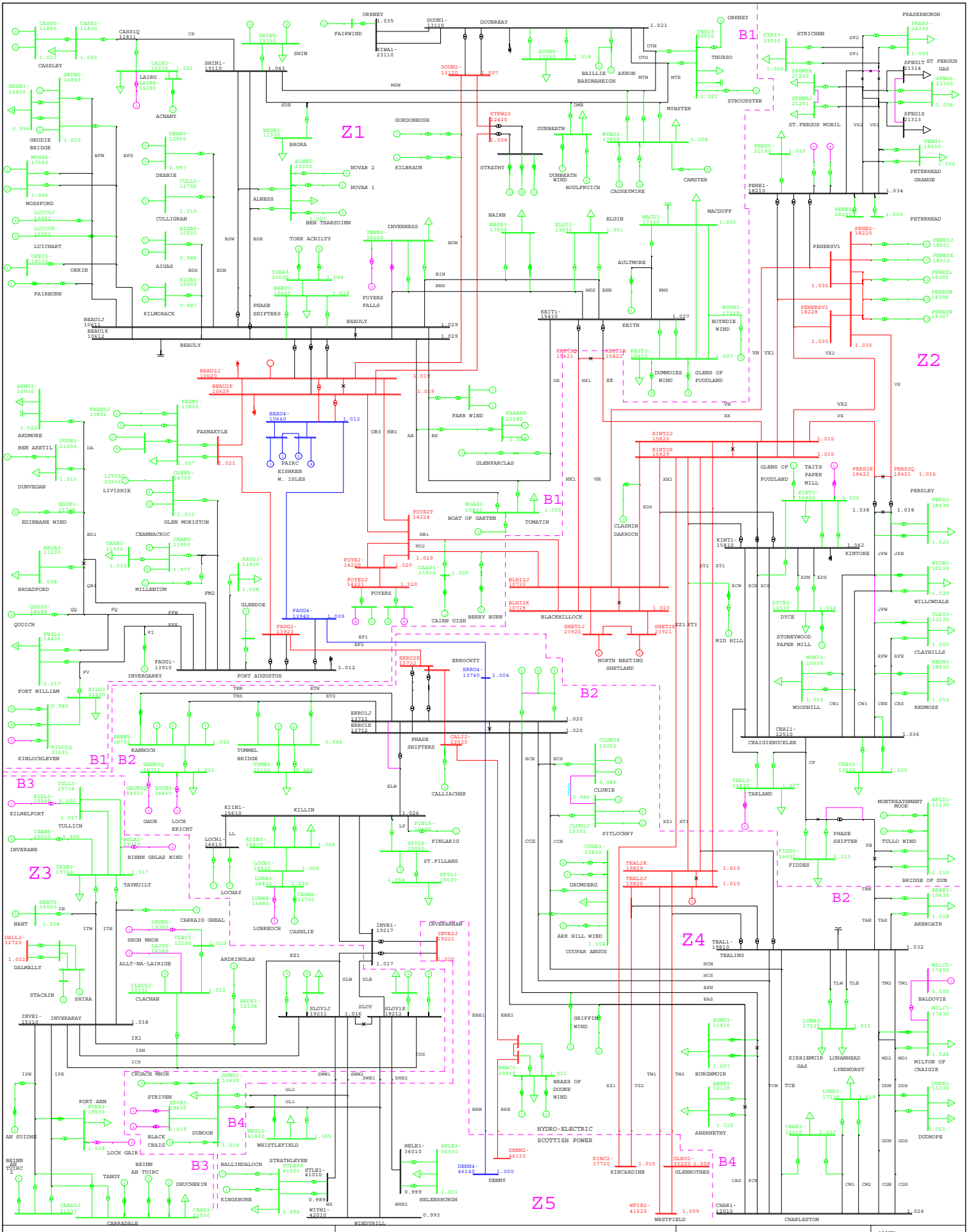


SCOTTISH HYDRO-ELECTRIC TRANSMISSION LTD

SEVEN YEAR STATEMENT 2008

ELECTRICAL BUS LAYOUT 2008/09

FIGURE A.2.2


Z1
Z2
Z3
Z4
Z5
B1
B2
B3
B4
ORKNEY
FAIRWIND
KIWA1-23110
DOUN1-13110
DOUNREAY
DOUN2-13120
DOUN5-13150
BAILLIE
AKRON
BARDNAHEIGH
THUR3-19930
THURSO
STROUPSTER
CASS5-11850
CASS3-11830
CASS1Q11811
CASSLEY
SHIN5-19150
SHIN
SHIN1-19110
LAIR3-16230
LAIRG
LAIR4-16280
ACHANY
GRUB5-14850
GRUB3-14830
GRUDIE BRIDGE
MOSS5-17590
MOSS3-17580
MOSSFORD
LUICSJ16851
LUICSK16852
LUICHART
ORRI5-18150
ORRIN
FAIRBURN
DEAN5-12950
DEANIE
CULL5-12750
CULLIGRAN
AIGA5-10250
AIGAS
KIOR5-15950
KILMORACK
BEAULJ10611
BEAULK10612
BEAULY
BRORA
BROR3-11330
GORDONBUSH
KILBRAUR
ALNE3-10330
NOVAR 2
NOVAR 1
ALNESS
BEN THARSUINN
TORR ACHILTY
TORA3-20030
BEAU3-10630
PHASE SHIFTERS
INNE3-15130
INVERNESS
FOYERS FALLS
STRW20-22420
STRATHY
DUNBEATH
DUNBEATH WIND
MYBS3-17830
BOULFRUICH
CAUSEYMIRE
MYBSTER
CAMSTER
NAIRN
NAIR3-17910
ELGI3-13630
ELGIN
MACD3-17330
MACDUFF
AULTMORE
KEIT1-15410
KEITH
BOYN3-17319
BOYNDIE WIND
KBRT2P15421
KBRT2R15422
KEIT3-15430
DUMMUIES WIND
GLENS OF FOUDLAND
BEAU2J10629
BEAU2K10629
ARMO3-20930
ARDMORE
FASN5J13851
FASN3-13830
FASNAKYLE
BEN AKETIL
DUGR3-21030
DUNVEGAN
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LIVISHIE
GLEN5-14750
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EDIN3-21740
EDINBANE WIND
BEAU4-10640
PAIRC
EISHKEN
W. ISLES
FARR WIND
FAAR8K22182
GLENFARCLAS
BOAG3-10830
BOAT OF GARTEN
TOMATIN
FOYE2T14224
FOYE2R14221
FOYE2-14220
DAAB3-21930
FOYERS
CAIRN UISH
BERRY BURN
BLHI2J10720
BLHI2K10729
BLACKHILLOCK
SHET2J23920
SHET2K23921
NORTH NESTING
SHETLAND
CLASHIN DARROCH
KINT2J15820
KINT2K15829
GLENS OF FOUDLAND
TAITS PAPER MILL
PERS2R18422
PERS2Q18421
KINT1-15810
KINTORE
PERSLEY
PERS3-18430
DYCE3-13530
DYCE
STONEYWOOD PAPER MILL
MID HILL
WIOW3-20230
WILLOWDALE
CLAY1-12230
CLAYHILLS
WOHI1-20330
WOODHILL
REDM3-18830
REDMOSS
CRAI1-12510
CRAIGIEBUCKLER
CRAI3-12630
TARL3-21430
TARLAND
MONTREATHMENT MOOR
BRID3-11130
TULLO WIND
PHASE SHIFTER
FIDD3-14030
FIDDES
BRIDGE OF DUN
ARBR3-10430
ARBROATH
FRASERBURGH
FRAS3-14330
ST FERGUS GAS
SFEG1T21314
SFEG5-21350
SFEG1S21313
ST.FERGUS MOBIL
SFEM5K21252
SFEM5J21251
PEHS5-21150
PEHG3-18330
PETERHEAD GRANGE
PEHE1-18210
PETERHEAD
PEHE2-18220
PEHERSV1
PEHERSV2 18228
PEHE0J18201
PEHE0K18202
PEHE0L18205
PEHE0M18206
PEHE0N18207
BROA3-11230
BROADFORD
CEAN3-13930
CEAN5-11950
CEANNACROC
MILLENIUM
FAUG3-13930
FAUG4-13940
FAUG2-13920
FAUG1-13910
INVERGARRY
FORT AUGUSTUS
GLENDOE
QUOI5-18650
QUOICH
FWIL3-14430
FORT WILLIAM
KILO3-21630
KILO3Q21631
KINLOCHLEVEN
RANN5-18750
RANNOCH
RANN3Q18731
TUMMEL BRIDGE
TUMB3-20130
GAUR5Q14551
LOCH5-16450
GAUR
LOCH ERICHT
KIEL5-15550
KILMELFORT
TULL3-19738
TULLICH
INAW5-20550
INVERAWE
BIENN GHLAS WIND
TAYN3-19710
TAYNUILT
NANT5-18050
NANT
CARRAIG GHEAL
SRON MHOR
SROM5-19350
DALL2-32720
DALMALLY
ALLT-NA-LAIRIGE
LAIG5-16150
CLAC3-12130
CLACHAN
STACAIN
SHIRA
INVE1-15310
INVERARAY
ARDKINGLAS
ARDK1-12136
CRUACH MHOR
DUNO3-13430
STRIVEN
STYE3-19630
PORT ANN
PORA5-18530
AN SUIDHE
BLACK CRAIG
DUNOON
LOCH GAIR
WHTL3-41830
WHISTLEFIELD
BEINN AN TUIRC 2
TANGY
DEUCHERIN
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CAAD3-11530
CARRADALE
BALLINDALOCH
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STLE1-41010
STRATHLEVEN
KINGSBURN
WIYH1-42010
WINDYHILL
HELE1-36010
HELE3-36030
HELENSBURGH
DENN4-46140
DENN2-46120
DENNY
HYDRO-ELECTRIC SCOTTISH POWER
GRIFFIN WIND
BRAE3-10930
BRAES OF DOUNE WIND
BUMU3-11430
BURGHMUIR
ABEN3-10130
ABERNETHY
KINC2-37720
KINCARDINE
GLRO2-35220
GLENROTHES
WFIE2-41520
WESTFIELD
CHAR1-12010
CHARLESTON
LUNA3-17130
KIRRIEMUIR GAS
LUNANHEAD
LYNDHURST
LYND3-17210
CHAR3-12030
MILC5-17450
BALDOVIE
MILC3-17430
MILTON OF CRAIGIE
DUDH3-13330
DUDHOPE
CLUN5K12352
CLUNIE
CLUN5J12351
PITLOCHRY
COUA3-12430
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ARK HILL WIND
COUPAR ANGUS
TEAL2K19829
TEAL2J19820
TEALING
TEAL1-19810
FINL5-19050
FINLARIG
ST.FILLANS
SFIL5-19050
SFIL3-19030
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KILLIN
LOCH1-16610
LOCHAY
KIIN3-15630
LOCH3-16630
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LUBR8-16880
LUBRBOCH
CASH5-21750
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SLOY
SLOY1K19212
CALI2-22520
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ERRO2K13722
ERROCHTY
ERRO4-13740
ERRO1J13711
ERRO1K13712
PHASE SHIFTERS
ORKNEY
THUR3-19930
STRI3-19530
STRICHEN
PEHS5-21150
PEHE1-18210
PEHERSV1
PEHERSV2 18228
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KEITH
DUMMUIES WIND
GLENS OF FOUDLAND
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KBRT2R15422
KEIT3-15430
MACD3-17330
MACDUFF
AULTMORE
ELGI3-13630
ELGIN
NAIR3-17910
NAIRN
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BEAU2K10629
BEAULJ10611
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TORR ACHILTY
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SROM5-19350
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ALLT-NA-LAIRIGE
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STLE1-41010
STRATHLEVEN
KINGSBURN
WIYH1-42010
WINDYHILL
HELE1-36010
HELE3-36030
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DENNY
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BRAE3-10930
BRAES OF DOUNE WIND
BUMU3-11430
BURGHMUIR
ABEN3-10130
ABERNETHY
KINC2-37720
KINCARDINE
GLRO2-35220
GLENROTHES
WFIE2-41520
WESTFIELD
CHAR1-12010
CHARLESTON
LUNA3-17130
KIRRIEMUIR GAS
LUNANHEAD
LYNDHURST
LYND3-17210
CHAR3-12030
MILC5-17450
BALDOVIE
MILC3-17430
MILTON OF CRAIGIE
DUDH3-13330
DUDHOPE
CLUN5K12352
CLUNIE
CLUN5J12351
PITLOCHRY
COUA3-12430
DRUMDERG
ARK HILL WIND
COUPAR ANGUS
TEAL2K19829
TEAL2J19820
TEALING
TEAL1-19810
FINL5-19050
FINLARIG
ST.FILLANS
SFIL5-19050
SFIL3-19030
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KILLIN
LOCH1-16610
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LUBRBOCH
CASH5-21750
CASHLIE
INVR1-19217
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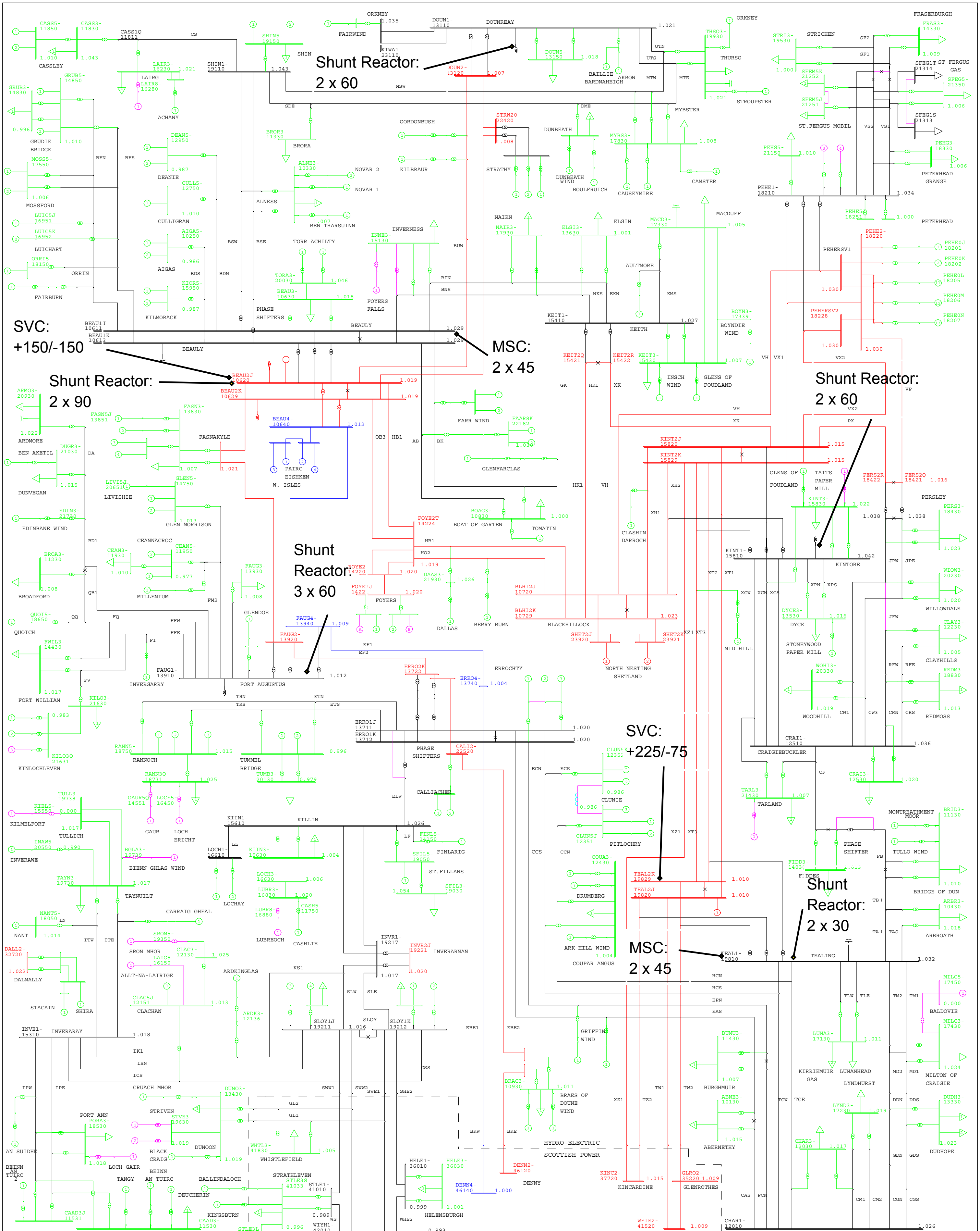
INVR2J19221
SLOY1J19211
SLOY
SLOY1K19212
CALI2-22520
CALLIACHER
ERRO2K13722
ERROCHTY
ERRO4-13740
ERRO1J13711
ERRO1K13712
PHASE SHIFTERS
SCOTTISH HYDRO-ELECTRIC TRANSMISSION LTD
SEVEN YEAR STATEMENT 2008
TRANSMISSION ZONES & BOUNDARIES 2014/15
FIGURE A.2.3
400KV
275KV
132KV
<=33KV

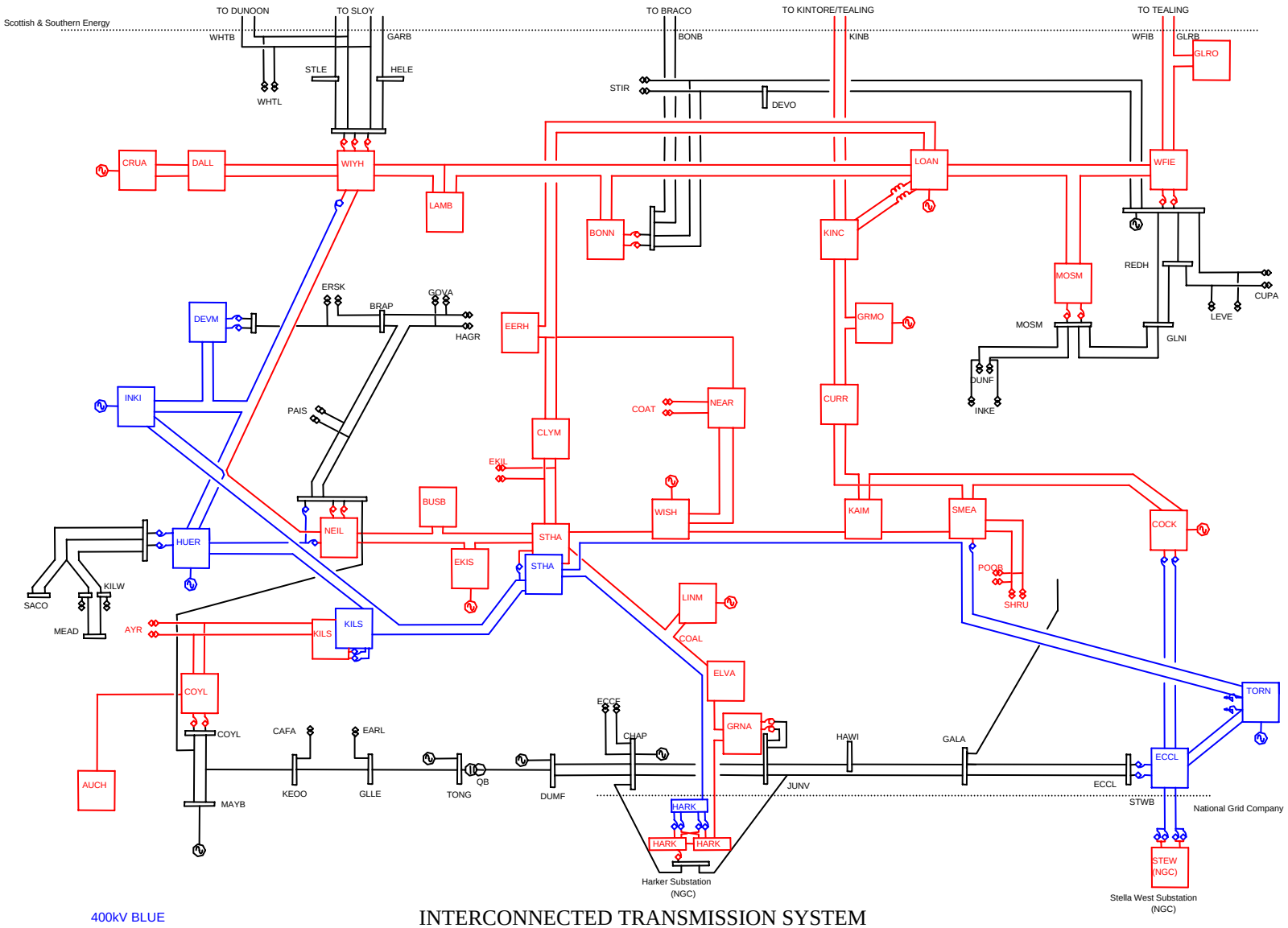


SCOTTISH HYDRO-ELECTRIC TRANSMISSION LTD

SEVEN YEAR STATEMENT 2008

ELECTRICAL BUS LAYOUT 2014/15

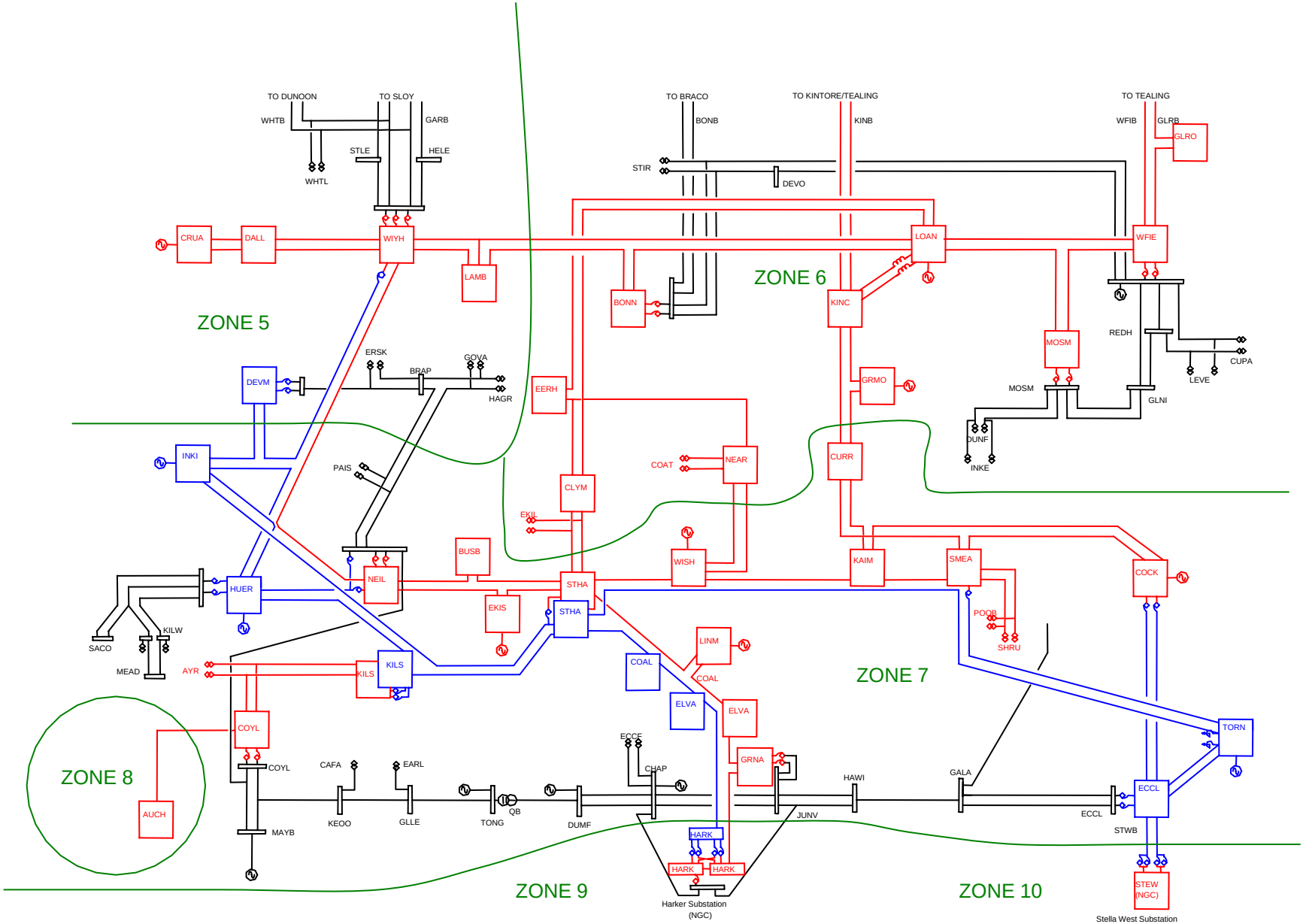
FIGURE A.2.4



400kV BLUE
275kV RED
132kV BLACK

INTERCONNECTED TRANSMISSION SYSTEM
SPT Existing Transmission System, April 2008

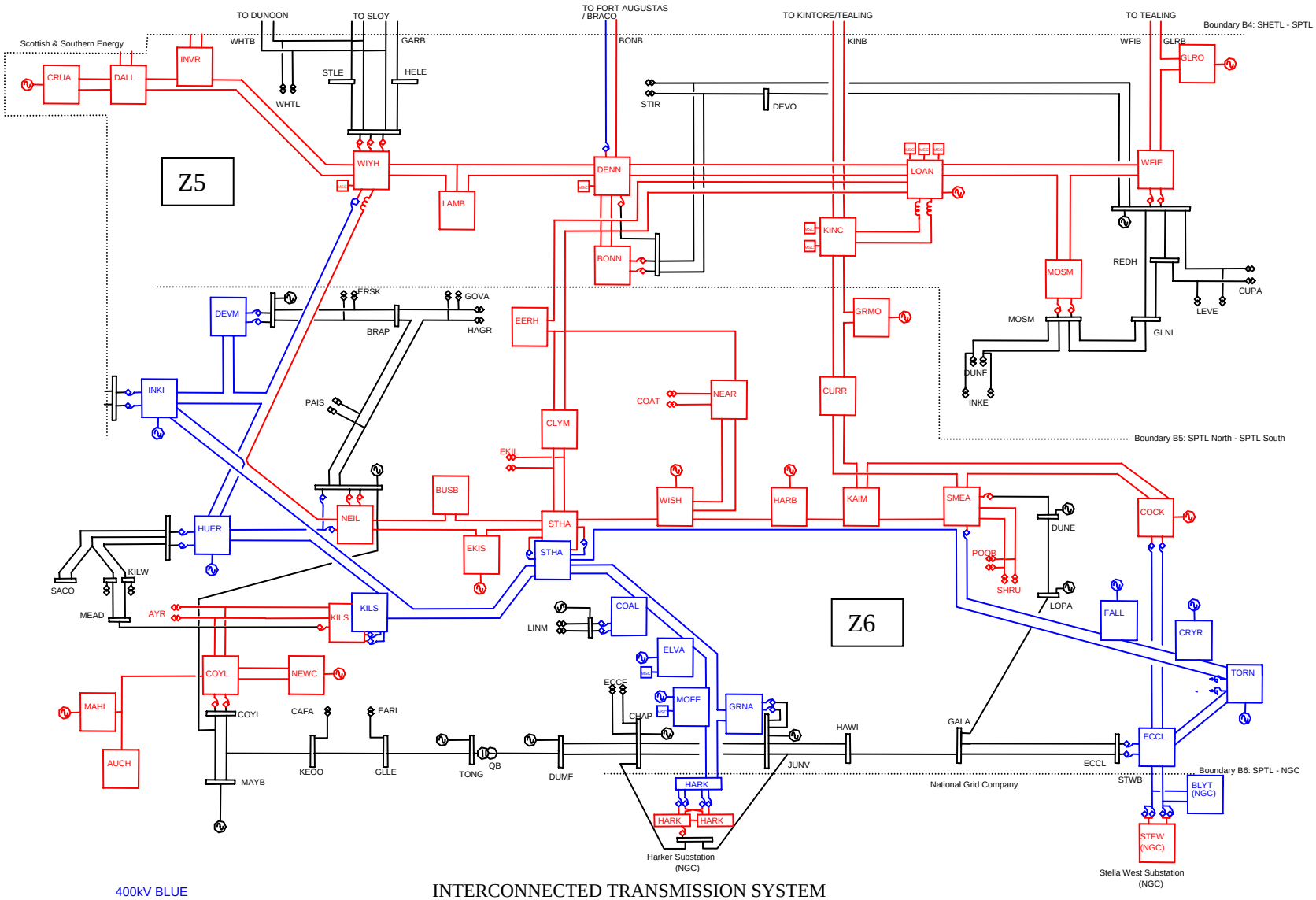
Figure A.3.1



400kV BLUE
275kV RED
132kV BLACK

INTERCONNECTED TRANSMISSION SYSTEM
SPT Generation Use of System Tariff Zones (Electrical), April 2009

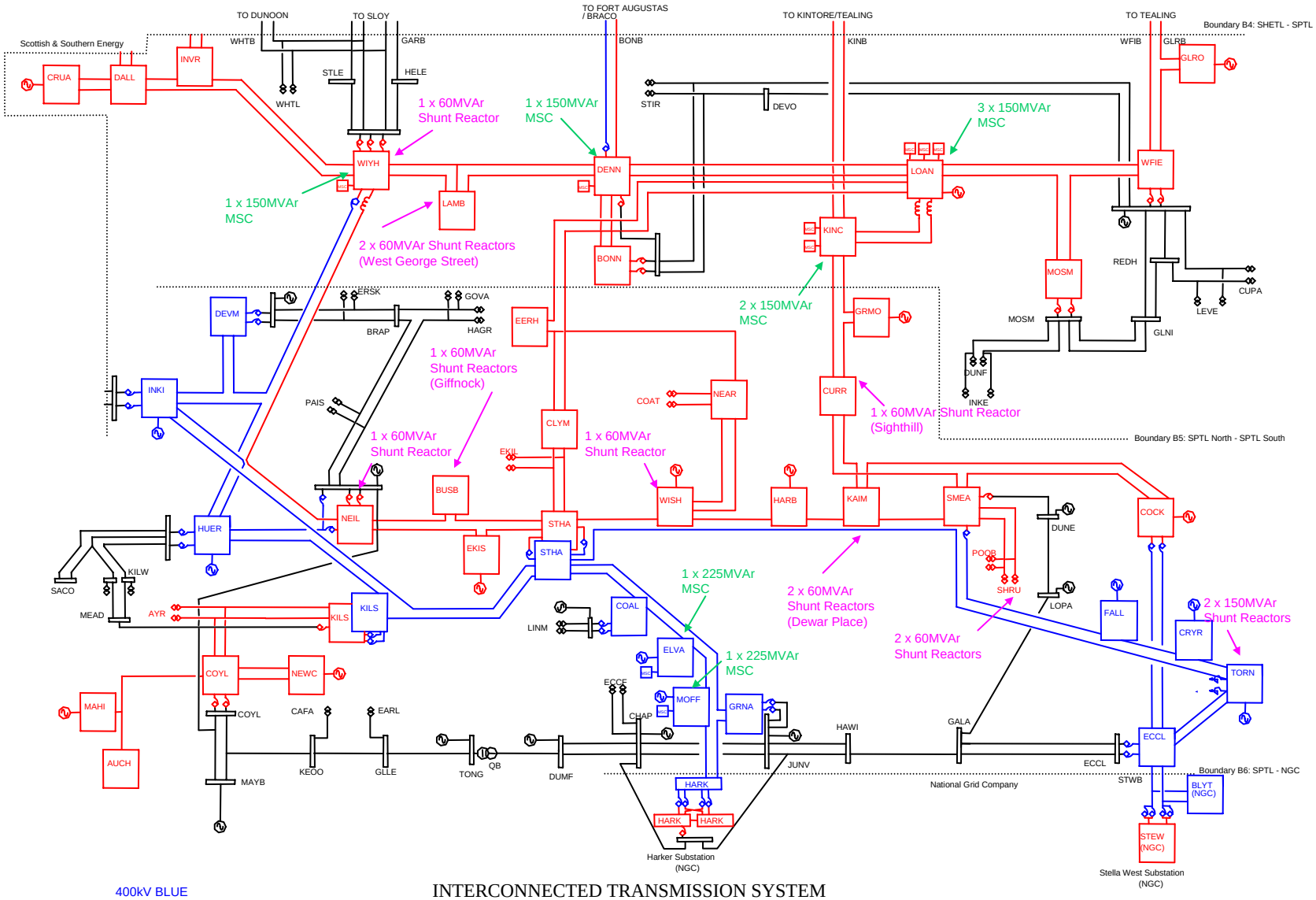
Figure A.3.2



400kV BLUE
275kV RED
132kV BLACK

INTERCONNECTED TRANSMISSION SYSTEM
SPT Transmision Boundaries and SYS Study Zones, 2014/15

Figure A.3.3



400kV BLUE
275kV RED
132kV BLACK

INTERCONNECTED TRANSMISSION SYSTEM
SPT Existing & Planned Reactive Compensation, 2014/15

Figure A.3.4

GB SYS FIG. A.4.1. – NGET EXISTING TRANSMISSION SYSTEM – 2007/08

KEY

400kV CIRCUITS
275kV CIRCUITS
400kV SUBSTATIONS
275kV SUBSTATIONS
CIRCUIT BREAKER
SWITCH DISCONNECTOR
QUADRATURE BOOSTER
REACTOR

SCOTTISH POWER
NATIONAL GRID

STRATHAVEN ELVANFOOT
HARKER
FOURSTONES
ECCLES
STELLA WEST
BLYTH
TYNEMOUTH
SOUTH SHIELDS
WEST BOLDON
OFFERTON
HAWTHORN PIT
HART MOOR
SALTHOLME
HARTLEPOOL
LACKENBY
GRANGE TOWN
TOD POINT
GREYSTONES
SPENNYMOOR
HUTTON
HEYSHAM
WASHWAY FARM
STANAH
PENWORTHAM
KIRKBY
RAINHILL
LISTER DRIVE
FIDDLERS FERRY
INCE
BIRKENHEAD
CAPENHURST
FRODSHAM
WYLFA
PENTIR
DINORWIG
FFESTINIOG
DEESIDE
TRAWSFYNYDD
SHREWSBURY
LEGACY
RUGELEY
IRONBRIDGE
BUSHBURY
PENN
WILLENHALL
OCKER HILL
KITWELL
OLDBURY
BUSTLEHOLM
NECHELLS
HAMS HALL
COVENTRY
BERKSWELL
BISHOPS WOOD
FECKENHAM
PADIHAM
BRADFORD WEST
KIRKSTALL
SKELTON GRANGE
ELLAND
FERRYBRIDGE
POPPLETON
ROCHDALE
KEARSLEY
WHITEGATE
MONK FRYSTON
OSBALDWICK
THORNTON
DRAX
EGGBOROUGH
KEADBY
HUMBER REFINERY
CREYKE BECK
KILLINGHOLME
SOUTH HUMBER BANK
GRIMSBY WEST
WEST BURTON
COTTAM
THORPE MARSH
STALYBRIDGE
STOCKSBRIDGE
CARRINGTON
SOUTH MANCHESTER
DAINES
MACCLESFIELD
NEEPSEND
PITSMOOR
WINCOBANK
BREDBURY
WEST MELTON
ALDWARKE
THURCROFT
TEMPLEBOROUGH
BRINSWORTH
HIGH MARNHAM
SHEFFIELD CITY
NORTON LEES
JORDANTHORPE
CHESTERFIELD
STAYTHORPE
WILLINGTON EAST
CELLARHEAD
DRAKELOW
RATCLIFFE ON SOAR
NORTON
SALTEND NORTH
SALTEND SOUTH
SPALDING NORTH
WALPOLE
NORWICH MAIN
EATON SOCON
BURWELL MAIN
GRENDON
ENDERBY
PATFORD BRIDGE
EAST CLAYDON
SUNDON
WYMONDLEY MAIN
PELHAM
BRAMFORD
SIZEWELL
BRAINTREE
RAYLEIGH MAIN
CORYTON
TILBURY
WARLEY
WALTHAM CROSS
ELSTREE
RYE HOUSE
MILL HILL
WATFORD SOUTH
IVER
LEIGHTON BUZZARD
AMERSHAM MAIN
PEMBROKE
WALHAM
RASSAU
COWLEY
CULHAM JET
DIDCOT
CILFYNYDD
SWANSEA NORTH
BAGLAN BAY
UPPER BOAT
MARGAM
PYLE
COWBRIDGE
ABERTHAW
ALVERDISCOTT
ALPHA STEEL
USKMOUTH
CARDIFF EAST
WHITSON
IRON ACTON
IMPERIAL PARK
MINETY
MELKSHAM
BRAMLEY
TREMORFA
HINKLEY POINT
SEABANK
FLEET
BRIDGWATER
TAUNTON
AXMINSTER
INDIAN QUEENS
LANDULPH
EXETER
ABHAM
MANNINGTON
NURSLING
CHICKERELL
LOVEDEAN
BOTLEY WOOD
FAWLEY
LALEHAM
EALING
WILLESDEN
TOTTENHAM
ST.JOHNS WOOD
HACKNEY
REDBRIDGE
BARKING
WEST THURROCK
NORTHFLEET EAST
GRAIN
KINGSNORTH
SINGLEWELL
CITY ROAD
WEST HAM
WIMBLEDON
HURST
LITTLEBROOK
NEW CROSS
WEST WEYBRIDGE
CHESSINGTON
BEDDINGTON
ROWDOWN
KEMSLEY
BOLNEY
NINFIELD
DUNGENESS
SELLINDGE
CANTERBURY NORTH
E de F
(270kV DC)

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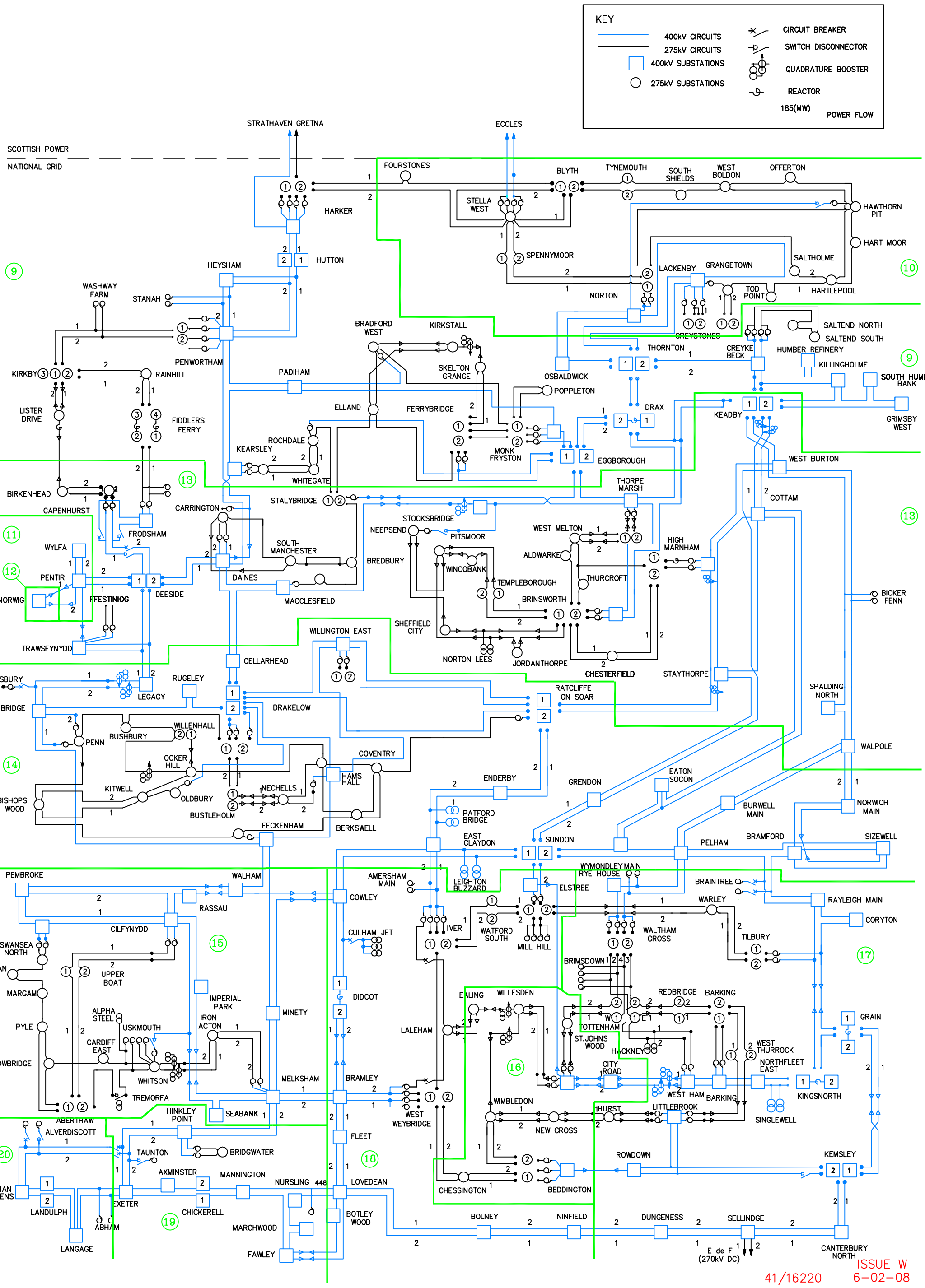
GB SYS FIG. A.4.2. NGET GENERATION USE OF SYSTEM TARIFF ZONES (ELECTRICAL) 2008/09



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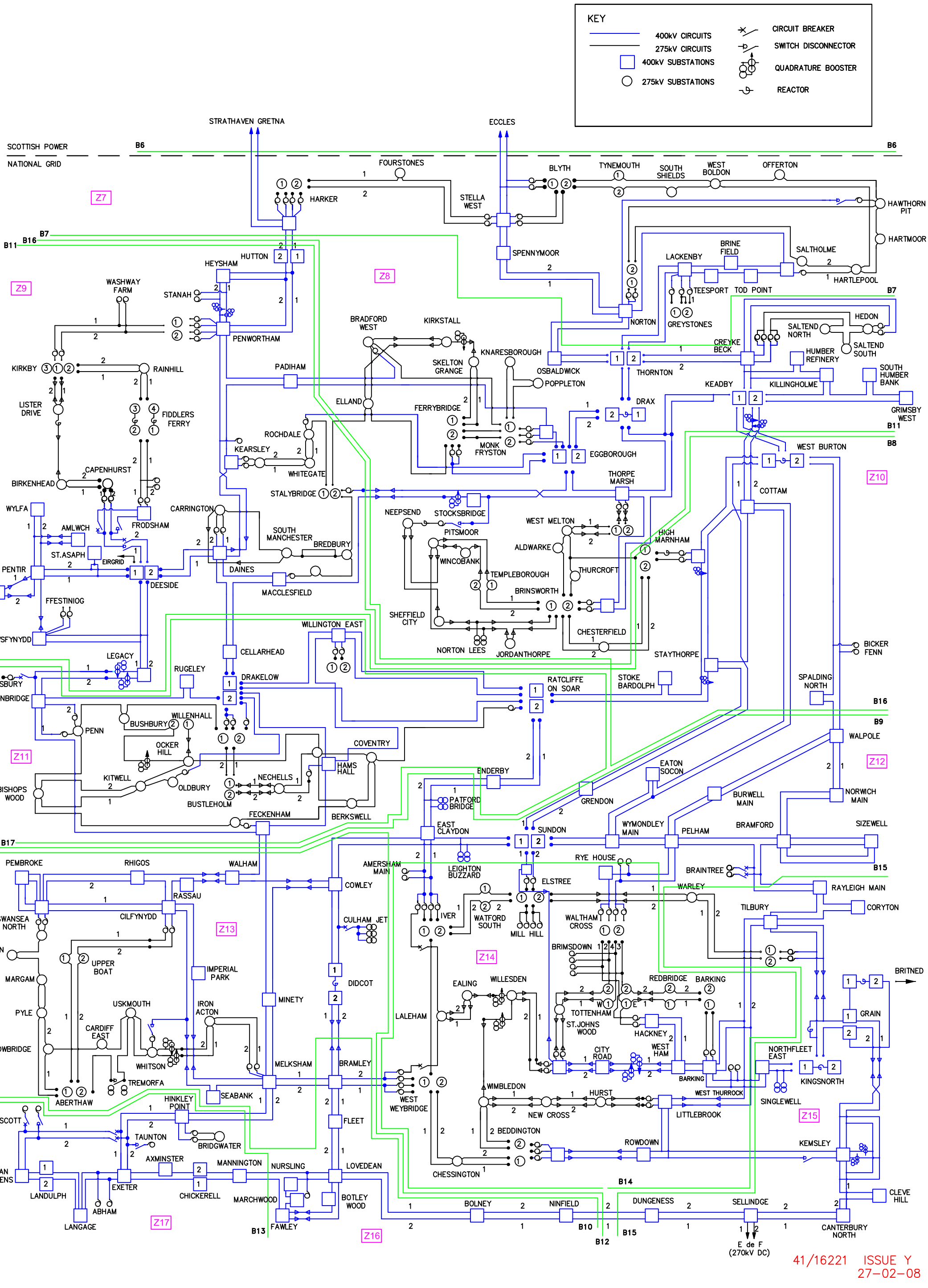
GB SYS FIG. A.4.3. NGET TRANSMISSION BOUNDARIES AND SYS STUDY ZONES – 2014/15



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GB SYS. FIG. A.4.4

NGET EXISTING & PLANNED REACTIVE COMPENSATION PLANT – 2014/15

KEY

- MSC MECHANICALLY SWITCHED CAPACITOR
- GT MAIN GAS TURBINE SYNC COMP CAPABILITY 132kV CONNECTED
- SC SYNCHRONOUS COMPENSATOR
- STATIC VAR COMPENSATOR
- SHUNT REACTOR
- STATIC CAPACITOR
- T COMPENSATION CONNECTED TO TERTIARY OF TRANSFORMER
- * QUADRATURE BOOSTER EQUIPMENT TO BE INSTALLED
- FIGURES QUOTED IN MVAr

KEY

SCOTTISH POWER

NATIONAL GRID

STRATHAVEN GRETNA

ECCLES

FOURSTONES

HARKER

STELLA WEST

BLYTH

TYNEMOUTH

SOUTH SHIELDS

WEST BOLDON

OFFERTON

HAWTHORN PIT

HARTMOOR

SPENNYMOOR

LACKENBY

BRINE FIELD

SALTHOLME

HARTLEPOOL

TEESPORT

TOD POINT

HEYSHAM

HUTTON

WASHWAY FARM

STANAH

PENWORTHAM

NORTON

GREYSTONES

THORNTON

CREYKE BECK

SALTEND NORTH

HEDON

SALTEND

HUMBER REFINERY

SOUTH HUMBER BANK

GRIMSBY WEST

KEADBY

KILLINGHOLME

QB 2550MVA 39 TAPS 400kV

QB 2750MVA 39 TAPS 400kV

WEST BURTON

COTTAM

BRADFORD WEST

KIRKSTALL

KNARESBOROUGH

SKELTON GRANGE

OSBALDWICK

POPPLETON

DRAX

EGGBOROUGH

MSC 4x45 132kV

KIRKBY

RAINHILL

PADIHAM

ELLAND

FERRYBRIDGE

MONK FRYSTON

ROCHDALE

KEARSLEY

WHITEGATE

LISTER DRIVE

FIDDLERS FERRY

CAPENHURST

BIRKENHEAD

WYLFA

AMLWCH

FRODSHAM

ST.ASAPH

EIRGRID

DEESIDE

PENTIR

DINORWIG

FFESTINIOG

TRAWSFYNYDD

STALYBRIDGE

THORPE MARSH

NEEPSEND

STOCKSBRIDGE

PITSMOOR

WINCOBANK

TEMPLEBOROUGH

BRINSWORTH

WEST MELTON

ALDWARKE

THURCROFT

HIGH MARNHAM

CARRINGTON

SOUTH MANCHESTER

BREDBURY

DAINES

MACCLESFIELD

SHEFFIELD CITY

NORTON LEES

JORDANTHORPE

CHESTERFIELD

STAYTHORPE

STOKE BARDOLPH

RATCLIFFE ON SOAR

WILLINGTON EAST

CELLARHEAD

DRAKELOW

RUGELEY

LEGACY

SHREWSBURY

IRONBRIDGE

BUSHBURY

WILLENHALL

PENN

OCKER HILL

KITWELL

OLDBURY

BISHOPS WOOD

BUSTLEHOLM

NECHELLS

FECKENHAM

BERKSWELL

HAMS HALL

COVENTRY

ENDERBY

PATFORD BRIDGE

EAST CLAYDON

LEIGHTON BUZZARD

SUNDON

GRENDON

EATON SOCON

WYMONDLEY MAIN

PELHAM

RYE HOUSE

BURWELL MAIN

BRAMFORD

NORWICH MAIN

WALPOLE

SPALDING NORTH

BICKER FENN

BRITNED

SIZEWELL

BRAINTREE

RAYLEIGH MAIN

CORYTON

TILBURY

GRAIN

NORTHFLEET EAST

KINGSNORTH

SINGLEWELL

CLEVE HILL

CANTERBURY NORTH

E de F (270kV DC)

PEMBROKE

RHIGOS

WALHAM

RASSAU

CILFYNYDD

BAGLAN BAY

UPPER BOAT

MARGAM

PYLE

CARDIFF EAST

COWBRIDGE

ABERTHAW

HINKLEY POINT

SEABANK

WHITSON

TREMORFA

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MINETY

DIDCOT

MELKSHAM

BRAMLEY

WEST WEYBRIDGE

LALEHAM

EALING

WILLESDEN

TOTTENHAM

ST.JOHNS WOOD

HACKNEY

CITY ROAD

WEST HAM

BARKING

REDBRIDGE

WIMBLEDON

NEW CROSS

HURST

WEST THURROCK

LITTLEBROOK

ROWDOWN

KEMSLEY

BEDDINGTON

CHESSINGTON

ALVERDISCOTT

TAUNTON

BRIDGWATER

AXMINSTER

INDIAN QUEENS

LANDULPH

EXETER

LANGAGE

ABHAM

CHICKERELL

MANNINGTON

NURSLING

MARCHWOOD

FAWLEY

LOVEDEAN

BOTLEY WOOD

BOLNEY

NINFIELD

DUNGENESS

SELLINDGE

AMERSHAM MAIN

COWLEY

CULHAM JET

IVER

WATFORD SOUTH

MILL HILL

ELSTREE

WALTHAM CROSS

WARLEY

DRAFT FOR APPROVAL

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