



File Names and Formats

Electricity Reconciliation Manager

This document lists the file name and file format for each file transferred to and from the reconciliation manager under Part 15 of the Code effective 1 November 2010. It also describes the standard file naming convention used by the reconciliation manager when creating file names.

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Version 2.7



1. Revision history

Version	Date	Author	Comment
0.1	25/07/2007	S Nixon	First draft
1.0	26/07/2007	L Martin	Feedback from the first draft incorporated. Released for communication to participants.
1.1	18/10/07	L Martin	Internal review
1.2	25/10/07	L Martin	File formats as specified in the reconciliation manager functional specification v6 added, and the name of this document modified accordingly. The Unique ID for files from the reconciliation manager modified from 4 to 6 characters and will be an "hour minute second" run time. File names for files transferred between the reconciliation manager and the Registry updated to reference the Registry User Manual. Changes highlighted in yellow for release to participants.
1.3	5/12/07	L Martin	Clarification that GR-010 will be two reports where a participant is a buyer and a seller. File names updated for GR-170 which is two reports. Clarification that the unique identifier in file names to and from the reconciliation manager contains numeric characters. Revision numbers 00, 01, 03, 07, 14, 18 or 24. Metering type changed from HH to HHR for GR-080 and GR-100.
1.4	17/01/08	L Martin	Addition of .gz extension for files from the reconciliation manager to participants.
1.5	17/01/08	Z Doran	Final
1.6	11/10/10	A Watson	Added GR210, GR220, GR230, GR240, GR250, GR260, GR270
1.7	23/11/10	H Collingridge	Added AV-160 Automated Trading Notifications (actual format is in registry file formats document)
1.8	25/09/13	D Echavia	Added AV-170 and GR-015
1.9	25/09/13	D Echavia	Updates for AV-030
2.0	26/03/2015	M Gledhill	Added various reports, reformatting
2.1	16/06/2015	S Torrens	Updates for outage constraints
2.2	10/09/2015	S Torrens	Updates for compressed file uploads and downloads
2.3	22/07/2016	D Charlton	Updates for GR-045, AV-070, AV-180 and NT-050
2.4	15/04/2019	A Kerr	Updates for GR-265

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1. Introduction

The purpose of this document is to provide reconciliation participants the file name and file format for each file transferred to and from the reconciliation manager under Part 15 of the Code effective 1 November 2010.

It also describes the standard file naming convention used by the reconciliation manager when creating file names.

2. Standard naming convention

2.1. Overview

The reconciliation manager functional specification states that the reconciliation manager must define a standard file naming format accommodating the following business requirements:

- The filename should easily identify the type of information it contains;
- The filename should identify the submitting party; and
- The filename should allow for versioning, so the same information may be re-submitted should corrections be required.

2.2. File naming convention

The reconciliation manager will use a standard naming convention developed from the electricity information exchange protocols (EIEP) to create file names for the exchange of information between participants and the reconciliation manager.

The file naming convention is as follows:

2.3. Files to the reconciliation manager

Description	Type	Example	Description
Sender	Char 4	CTCT	Four letter party code
Utility type	Char 1	E	"E" for electricity
Recipient	Char 4	NZRM	Four letter party code
File type	Char 7	NHHSUBM	Short code for file contents
Report month	YYYYMM	200706	Month the report or file contents relate to
Report run date	YYYYMMDD	20070705	Date the report or file was created
Unique ID	Char 4	1234	Unique identifier (4 numeric characters)
Filename extension	Char 3	.csv	File type

For example: CTCT_E_NZRM_NHHSUBM_200706_20070705_0001.csv

2.4. Files from the reconciliation manager

Description	Type	Example	Description
Sender	Char 4	NZRM	Four letter party code
Utility type	Char 1	E	“E” for electricity
Recipient	Char 4	CTCT	Four letter party code
File type	Char 7	RECCONS	Short code for file contents
Report month	YYYYMM	200706	Month the report or file contents relate to
Report run date	YYYYMMDD	20070720	Date the report or file was created
Unique ID	Char 6	162957	Hour minute second (HHMISS) run time (6 numeric characters)
Filename extension	Char 3	.csv	File type

For example: NZRM_E_CTCT_RECCONS_200706_20070720_162957.csv.gz

2.5. File compression

All files submitted/uploaded to the reconciliation system by participants must be uncompressed. However there exists the option to submit/upload a ZIP format archive file containing multiple uncompressed submission files. NOTE: the submission files must be contained within the ZIP archive only, any contents within folders in the archive will not be processed.

For such upload ZIP files, the content of the archive will be processed by file type and consumption period in alpha-numerical order of the remainder of the file name. There is therefore no need for the file names to be consecutive, however participants will need to ensure that their files are named appropriately in order to avoid unintended changes to their submitted volumes (refer to Appendix 1).

Additionally, the ZIP archive files themselves need to follow the same format as the files to the reconciliation manager as shown above except that the filename extension will be '.zip'. Similarly, the last four digits before the filename extension need to be a unique identifier.

For example: CTCT_E_NZRM_COMPRSU_200706_20070705_0001.zip

For downloading from the reconciliation system there exists an option for the participant to have all their GR report files archived into a single ZIP file and added to the download queue along with the individual files.

For both uploading and downloading archive files ZIP compression will be used.

All individual files downloaded from the reconciliation system or sent to participants are compressed using gzip compression, excluding those inside any ZIP archive file.

2.6. Notes on file names

The following points should be noted:

- The components of the main body of the file name are separated by underscores.
- The 'sender' in the file name is the code for the participant that is obligated in the rules to provide the information, not the code of the agent i.e., the 'sender' code in the file name should be the same as the 'reconciliation participant' code contained within the file.
- The Unique ID for files **from** the reconciliation manager will be the hour minute second (HHMISS) run time and will be 6 characters (numeric) in length.
- The Unique ID for files **to** the reconciliation manager can be any 4 characters (numeric) but the file name must be unique.
- The reconciliation system will process data on a "date and time received" basis i.e., if the same dataset is resubmitted, the quantities in the latest file submission will be used for reconciliation.
- Filename extensions will be dependent on the type of file and/or the mode of file transfer being used by each reconciliation participant.

3. File names

The following file names have been created for each file type specified in the reconciliation manager functional specification. Where there can be multiple senders or receivers of a file, the example contains a code of 'ABCD'. The reconciliation manager has a 4-letter party code of 'NZRM'. For the system operator, the example contains a code of 'SYST'.

3.1. Information to the reconciliation manager

File description	Ref (func spec)	File name to the reconciliation manager
Zip archive of other files		ABCD_E_NZRM_COMPRSU_YYYYMM_YYYYMMDD_nnnn.zip
Changes to grid	AV-010	GRID_E_NZRM_GRIDCHA_YYYYMM_YYYYMMDD_nnnn.abc
Reporting thresholds and code changes	AV-020*	ECBD_E_NZRM_CODESBD_YYYYMM_YYYYMMDD_nnnn.abc
Outage constraints	AV-030	SYST_E_NZRM_OUTCONS_YYYYMM_YYYYMMDD_nnnn.abc
Loss codes & loss factors	AV-040	Refer to the Registry User Manual
Balancing area mappings	AV-050	Refer to the Registry User Manual
Registry ICP days	AV-060	Refer to the Registry User Manual
Registry HHR ICPs	AV-070	Refer to the Registry User Manual
NHH submissions	AV-080	ABCD_E_NZRM_NHHVOLS_YYYYMM_YYYYMMDD_nnnn.abc
HHR Submissions	AV-090	ABCD_E_NZRM_HHRVOLS_YYYYMM_YYYYMMDD_nnnn.abc
Profile shape submissions	AV-100	ABCD_E_NZRM_PROFSHA_YYYYMM_YYYYMMDD_nnnn.abc
Retailer ICP days	AV-110	ABCD_E_NZRM_ICPDAYS_YYYYMM_YYYYMMDD_nnnn.abc
Retailer electricity supplied	AV-120	ABCD_E_NZRM_BILLED_YYYYMM_YYYYMMDD_nnnn.abc
NSP volumes	AV-130	ABCD_E_NZRM_NSPVOLS_YYYYMM_YYYYMMDD_nnnn.abc
Monthly HHR ICP aggregates	AV-140	ABCD_E_NZRM_HHRAGGR_YYYYMM_YYYYMMDD_nnnn.abc
NSP & balancing area changes	AV-150*	ABCD_E_NZRM_NSPBALA_YYYYMM_YYYYMMDD_nnnn.abc
Automated Trading Notifications	AV-160	Refer to the Registry User Manual
Trading notifications from traders	AV-165	Recon portal online form
Dispatchable Demand Information	AV-170	ABCD_E_NZRM_DHHVOLS_YYYYMM_YYYYMMDD_nnnn.abc
Receive metering installation information	AV-180	ABCD_E_NZRM_NSPMTRG_YYYYMMDD_nnnn.abc

* The file format will be specified if required.

3.2. Information from the reconciliation manager

File description	Ref (func spec)	File name from the reconciliation manager
Zip archive of other files		NZRM_E_ABCD_COMPRSD_YYYYMM_YYYYMMDD_HHMISS.zip
Reconciliation information - consumption	GR-010	NZRM_E_ABCD_RECCONS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Reconciliation information - generation	GR-010	NZRM_E_ABCD_RECGENR_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Processed dispatchable demand data	GR-015	NZRM_E_ABCD_RECCLPS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Profile shape data	GR-020	NZRM_E_ABCD_PRSHAPE_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Seasonal profile shape	GR-030	NZRM_E_ABCD_PRSEASL_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Balanced NHH/HHR data	GR-040	NZRM_E_ABCD_BALDATA_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Pre loss adjusted and Balanced NHH/HHR data	GR-045	NZRM_E_ABCD_PLADATA_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Summary of traded kWh	GR-050	NZRM_E_ABCD_SUMMKWH_YYYYMM_YYYYMMDD_HHMISS.abc.gz
UFE factors – trading period report	GR-060	NZRM_E_ABCD_UFEFTPD_YYYYMM_YYYYMMDD_HHMISS.abc.gz
UFE factors – monthly summary report	GR-060	NZRM_E_ABCD_UFEFMTH_YYYYMM_YYYYMMDD_HHMISS.abc.gz
UFE factors – 12 month summary report	GR-060	NZRM_E_ABCD_UFEFANN_YYYYMM_YYYYMMDD_HHMISS.abc.gz
UFE factors to distributors	GR-065	NZRM_E_ABCD_UFEFDST_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Scorecard & market share	GR-070	NZRM_E_ABCD_SCOREMS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
ICP days scaling	GR-080	NZRM_E_ABCD_ICPSCAL_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Missing HHR ICPs	GR-090	NZRM_E_ABCD_ICPMISS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
ICP days comparison	GR-100	NZRM_E_ABCD_ICPCOMP_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Switched ICPs over threshold	GR-110	NZRM_E_ABCD_ICPSWIT_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Unaccounted for electricity	GR-120	NZRM_E_ABCD_UFESUMM_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Electricity supplied/submitted comparison	GR-130	NZRM_E_ABCD_ESUPSUB_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Missing HHR ICPs summary	GR-140	NZRM_E_ABCD_ICPMSUM_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Monthly ICP Submission Aggregate	GR-145	NZRM_E_NZEC_ICPSUBS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
ICP days comparison summary	GR-150	NZRM_E_ABCD_ICPCSUM_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Purchasers' average NHH kWh	GR-160	NZRM_E_ABCD_NHHPAVE_YYYYMM_YYYYMMDD_HHMISS.abc.gz

Purchasers' submission accuracy (HHR)	GR-170	NZRM_E_ABCD_ACCYHHR_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Purchasers submission accuracy (NHH)	GR-170	NZRM_E_ABCD_ACCYNHH_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Rule breaches	GR-180*	NZRM_E_ECBD_RBREACH_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Annual consumption list	GR-190	NZRM_E_ECBD_ANNCONS_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Grid owner charges	GR-200	NZRM_E_GRID_GOCHARG_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Consumption Generation summary	GR-210	NZRM_E_ABCD_CONSGEN_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Monthly Levy Report	GR-220	NZRM_E_ABCD_LEVYMON_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Electricity conveyed levy information	GR-225	NZRM_E_NZEC_ELECONV_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Submitted NSP Volumes	GR-230	NZRM_E_ABCD_LEVYNSP_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Submitted NSP Volumes by Trading Period	GR-235	NZRM_E_NZEC_NSPTSUB_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Balanced Data Summary	GR-240	NZRM_E_ABCD_BALSUMM_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Distributor Report – Electricity Traded	GR-250	NZRM_E_ABCD_DISTTRA_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Distributor Report – Electricity Submitted	GR-260	NZRM_E_ABCD_DISTSUB_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Distributor Report – Electricity Supplied	GR-265	NZRM_E_ABCD_DISTSUP_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Distributor Report – Electricity Supplied	GR-270	NZRM_E_ABCD_DISTSUP_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Report UFE rolling 24 months	GR-280	NZRM_E_NZEC_UFEBORD_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Report NSP final residual profile shapes	GR-290	NZRM_ENZC_RPSBORD_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Report seasonal profile shape summary	GR-300	NZRM_E_NZEC_SEABORD_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Report grid NSP information	GR-310	NZRM_E_NZEC_GRIDNSP_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Report – Embedded Generation	GR-320	NZRM_E_ABCD_EMBDGEN_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Retailer submissions by revision	GR-330	NZRM_E_NZEC_SUBSMRY_YYYYMM_YYYYMMDD_HHMISS.abc.gz
UFE by revision	GR-340	NZRM_E_NZEC_UFESMRY_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Grid Owner Embedded Generation	GR-350	NZRM_E_TPNZ_GOEMGEN_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Participant trading changes	NT-010*	NZRM_E_ABCD_CONTRCT_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Changes to grid	NT-020*	NZRM_E_ABCD_GRIDCHA_YYYYMM_YYYYMMDD_HHMISS.abc.gz
Outage constraints	NT-030	Outage Constraints Month YYYY_YYYYMMDDHHMISS.csv
Report NSP's	NT-050	Network_Supply_Points_<YYYYMMDDHH24MISS_NZEC.csv

* The file format will be specified if required.

4. File headers

To ensure complete files are transferred between the reconciliation manager and reconciliation participants, all files will contain a header showing the total number of records in the file. The ZIP archive files are an exception to this, though their constituent files will contain such headers.

An example format is as follows:

Description	Type	Required	Validation
Header record type	Char 3	Y	Must be "HDR"
File type	Char 10	Y	Defined by the Reconciliation manager for each interface
Reconciliation participant	Char 4	Y	Must be the participant code of the sender. "NZRM" if it is the reconciliation system.
Recipient	Char 4	Y	Must be the participant code of the recipient. "NZRM" if it is the reconciliation system.
File creation date	DD/MM/YYYY	Y	Valid date
File creation time	HH:MM:SS	Y	Valid time
Daylight Saving Adjustment Technique	Char 4	Y	Must be "TPR"
Number of detail records	Numeric 8	Y	Number of detail records after the header
User reference	Char 32	N	Free text

5. File formats

5.1. Overview

The file formats specified in the reconciliation manager functional specification are included in this section.

Files being exchanged between the reconciliation manager and reconciliation participants **do not** require a “DET” field at the start of each record.

5.2. Format of files to the reconciliation manager

5.2.1. AV-030 Outage constraints

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Start Date	DD/MM/YYYY	
Start Period	Numeric 2	
End Date	DD/MM/YYYY	
End Period	Numeric 2	

5.2.2. AV-040 Loss codes and factors

Data inputs:		
Loss factors file format		
Attributes	Format	Comments
Network code	Char 4	Valid network.
Loss category code	Alphanumeric 7	Mandatory.
Loss factor consumption	Numeric 1.3	Mandatory.
Loss factor generation	Numeric 1.3	Mandatory.
Start date	DD/MM/YYYY	Mandatory.
End date	DD/MM/YYYY	If missing, denotes that loss factors are valid until further notice.
Start period	Numeric 2	1 to 48. Defaults to 1. For daylight saving days '48' implies the last trading period of the day.
End period	Numeric 2	1 to 48. Defaults to 48. If < start period then the duration indicated ends on the following day, ie

		goes over midnight. For daylight saving days '48' implies the last trading period of the day.
Date and time of last change	DD/MM/YYYY HH:MM:SS	Date and time when information was last updated or inserted.

5.2.3. AV-050 Balancing area mappings

Attributes	Format	Comments
Registry NSP POC	Char 7	Mandatory.
Registry NSP network	Char 4	Mandatory. Valid network.
Registry NSP description	Char 32	Mandatory.
Network type	Char 1	G—grid, E—embedded, I—interconnection point.
Network connection status	Char 1	Y - active, N – inactive
Parent NSP POC	Char 7	Blank if grid connected.
Parent NSP network	Char 4	Blank if grid connected.
Balancing area	Char 12	Mandatory.
Start date	DD/MM/YYYY	Mandatory.
Start trading period	Numeric 2 (1..50)	Mandatory.
End date	DD/MM/YYYY	Optional.
End trading period	Numeric 2 (1..50)	If end date missing, then this field will also be missing.
ICP# of SB NSP	Char 15	Optional.
Audit input date/time	DD/MM/YYYY HH:MM:SS	
Input by (user name)	Char 15	
Audit deletion date/time	DD/MM/YYYY HH:MM:SS	
Deleted by (user name)	Char 15	

5.2.4. AV-060 ICP days

Attributes	Format	Comments
Month	MM/YYYY	Mandatory. Past 14 full calendar months.
Participant code	Char 4	Mandatory. Valid participant code.
Metering type	Char 3	Mandatory. 'NHH' or 'HHR'. 'NHH' includes metering types of non-half-hourly, pre-paid and unmetered.
NSP	Char 11	Mandatory. NSP code – network and POC.
ICP days	Numeric 12	Mandatory. Total number of days the ICPs were active.

5.2.5. AV-070 Half-hour ICP's

Attributes	Format	Comments
Month	MM/YYYY	Mandatory. Consumption period.
Participant code	Char 4	Mandatory. Valid participant code.
ICP number	Char 15	Mandatory.
Start date	DD/MM/YYYY	Mandatory. First day in month that ICP was owned by the participant and was active.
End date	DD/MM/YYYY	Mandatory. Last day in month that ICP was owned by the participant and was active.
ICP days	Numeric 12	Mandatory. Number of days between start date and end date, minus number of days where parent NSP is inactive.

5.2.6. AV-080 NHH submission information

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Reconciliation type	Char 2	GN—point of connection to the grid. EN—Embedded network. SB—Embedded network residual load.
Reconciliation participant	Char 4	Valid reconciliation code for participant.

Profile	Char 3	Valid profile code.
Loss category code	Char 7	Valid loss category code.
Flow direction	Char 1	X—Load (exit). I—Injection.
Dedicated NSP	Char 1	Y or N.
Month or day	MM/YYYY or DD/MM/YYYY	
Quantity in kWh	Numeric 12, 2	Allow for 0, 1 or 2 decimal places. For reconciliation type of SB, this value will/must be zero.
Quantity of historical estimate in kWh	Numeric 12, 2	Indicates the amount of the quantity that was estimated including any unmetered load. Same validation as for quantity above but in addition this value must be less than or equal to the value in the quantity field.

5.2.7. AV-090 HHR submission Information

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Reconciliation type	Char 2	GN—point of connection to the grid. EN—Embedded network.
Reconciliation participant	Char 4	Valid reconciliation code for participant.
Profile	Char 3	'HHR'.
Loss category code	Char 7	Valid loss category code.
Flow direction	Char 1	X—Load (exit). I—Injection.
Dedicated NSP	Char 1	Y or N.
Date	DD/MM/YYYY	
Trading period quantity 1 to 48 (46/50 for daylight saving) in kWh	Numeric 12, 2	Currently a series of comma delimited values. Allow for 0, 1 or 2 decimal places. For reconciliation type of SB, this value will/must be zero.
Checksum	Numeric 12, 2	Allow for 0, 1 or 2 decimal places. Must be the sum of the row trading period quantities.

5.2.8. AV-100 Profile shape submission information

All values are mandatory – no null values allowed.		
Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Approved profile submitter	Char 4	Valid reconciliation participant code.
Profile	Char 3	Valid profile code for profile owner.
Date	DD/MM/YYYY	
Trading period quantity 1 to 48 (46/50 for daylight saving)	Numeric 8	Currently a series of comma delimited values.
Checksum	Numeric 10	Must be the sum of the row quantities.

5.2.9. AV-110 ICP Days

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Consumption period	MM/YYYY	Valid month.
Metering type	Char 3	HHR or NHH.
Reconciliation participant	Char 4	Valid reconciliation participant code for the retailer or direct purchaser but not direct consumers.
Active ICP days	Numeric 8	

5.2.10. AV-120 Electricity supplied data

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Consumption period	MM/YYYY	Valid (invoiced)_month.
Reconciliation participant	Char 4	Valid reconciliation participant code for a retailer.
Actual sales kWh	Numeric 12	

5.2.11. AV-130 NSP volume information

Attributes	Format	Comments
POC	Char 7	Valid POC code of the NSP.
Network code	Char 4	Valid network code of the NSP.
Reconciliation type	Char 2	NP—Network interconnection point. GN—Grid exit. GD—Grid connected direct consumer. GG—Generator. EN—Embedded network.
Reconciliation participant (network owner)	Char 4	Valid reconciliation participant code of the network owner (grid owner, embedded network owner, grid-connected generator or local network owner). For GD and GN submissions, this will be the grid owner. For GG submissions this will be the grid-connected generator. For EN submissions this will be the embedded network owner.
Profile	Char 3	'HHR'.
Loss category	Char 7	Valid loss category of the reconciliation participant. This will be "GRID" for submissions from the grid owner.
Flow direction	Char 1	X—Load (exit). I—Injection.
Dedicated NSP	Char 1	Must be 'Y'.
Date	DD/MM/YYYY	
Trading period quantity in kWh – 1 to 48 (46/50 for daylight saving)	Numeric 12, 2	Currently a series of comma delimited values. Allow for 0, 1 or 2 decimal places.
Checksum	Numeric 12, 2	Allow for 0, 1 or 2 decimal places. Must be the sum of the row trading period quantities.

5.2.12. AV-140 Monthly HHR ICP aggregates

Data inputs:		
All values are mandatory – no null values allowed.		
Monthly HHR ICP aggregates by ICP		
Attributes	Format	Comments
Participant code	Char 4	Valid retailer or direct purchaser code.
Consumption period	MM/YYYY	Valid month.
ICP number	Char 15	
POC	Char 7	Valid POC code.
Network	Char 4	Valid network code.
Flow direction	Char 1	X—Load (exit). I—Injection.
Monthly quantity in kWh	Numeric 12, 2	Allow for 0, 1 or 2 decimal places.

5.2.13. AV-150 NSP and balancing area information

Received as free-form text by email from distributors.

5.2.14. AV-160 Automated Trading Notifications

See Registry file formats document for all registry files.

5.2.15. AV-165 Trading notifications from traders

Attributes	Format	Comments
Contract	Char 20	Valid contract code. Must have previously been set up in the system by RM
POC	Char 7	Valid point of connection (e.g. CPK0331)
Network Code	Char 4	Valid network code (e.g. CKHK)
Reconciliation Type	Char 2	Must be either GN or EN
Metering Type	Char 3	Must be either NHH or HHR
Start Date	DD/MM/YYYY	Valid date. Start Date and Start Trading Period must not be within time period of any existing trading notification for NSP
Start Trading Period	Number 2	1-50
End Date	DD/MM/YYYY	Valid date. End Date and End Trading Period must not be within time period of any existing trading notification for NSP
End Trading Period	Number 2	1-50

5.2.16. AV-170 Dispatchable Demand Information

Attributes	Format	Comments
POC	Char 7	Valid POC code.
Network code	Char 4	Valid network code.
Reconciliation type	Char 2	GD—Grid connected direct consumer. GN—point of connection to the grid. EN—Embedded network.
Reconciliation participant	Char 4	Valid reconciliation code for participant.
Dispatch capable load station identifier	Char 5	Valid dispatch capable load station identifier
Loss category code	Char 7	Valid loss category code.
Date	DD/MM/YYYY	
Trading period quantity 1 to 48 (46/50 for daylight saving) in kWh	Numeric 12, 2	Currently a series of comma delimited values. Allow for 0, 1 or 2 decimal places.
Checksum	Numeric 12.2	Allow for 0, 1 or 2 decimal places. Must be the sum of the row trading period quantities.

5.2.17. AV-180 Receive metering installation information

Attributes	Format	Comments
NSP	Char 11	NSP code – POC and Network
Responsible Participant	Char 4	Valid participant code.
Metering Equipment Provider Participant	Char 4	Optional. Valid participant code. The only time this can be used is when metering information exemption expiry date column is not used.
Metering Installation	Char 20	Optional. Only used when metering information exemption expiry date is not used and responsible participant has opted to use metering installation.
Metering Certification Expiry Date	DD/MM/YYYY	Optional. Only used when metering information exemption expiry date is not used. Where the metering installation is not used provide the metering certification date. Where metering installation is used enter 31/12/2525 for decommissioned metering installations.
Metering Exemption Expiry Date	DD/MM/YYYY	Optional.

Example submissions

Where the Metering Installation column *is not* used:

```
HDR,NSPMTRG,TPNZ,NZRM,15/06/2015,15:00:00,TPR,3,free text here
```

```
DEF1111WXYZ,ABC,ABC,,10/4/2016
```

```
DEF1112WXYZ,ABC,ABC,,10/4/2016
```

```
DEF1113WXYZ,ABC,ABC,,31/12/2525
```

Where the Metering Installation column *is* used:

```
HDR,NSPMTRG,ABCD,NZRM,15/06/2015,15:00:00,TPR,3,free text here
```

```
DEF1111WXYZ,ABC,ABC,MTRG_001,16/3/2016
```

```
DEF1111WXYZ,ABC,ABC,MTRG_002,16/3/2016
```

```
DEF1111WXYZ,ABC,ABC,MTRG_003,16/3/2016
```

Supplemental Information

1. The participant has to advise the reconciliation manager if it intends to use the Metering Installation column (or not) ahead of submitting metering installation information. If the participant advises that it will be used, then the system will reject any file with no "Metering Installation" value for any record. If the participant advises that it will not be used, then the system will reject any file with a "Metering Installation" value for any record.
2. Where the Metering Installation column is not used the participant must submit the earliest expiry date for the group of metering installations at the NSP in the Metering Certification Expiry Date column.
3. Where the Metering Installation column is used the participant should enter '31/12/2525' in the Metering Certification Expiry Date for decommissioned metering installations.
4. A single metering installation can contribute to multiple NSPs. The following file is acceptable:

```
HDR,NSPMTRG,ABCD,NZRM,17/06/2015,12:00:00,TPR,3,free text here
```

```
DEF1111WXYZ,ABC,ABC,MTRG_001,16/3/2016
```

```
GHI1111WXYZ,ABC,ABC,MTRG_001,16/3/2016
```

5. To reverse a record another file could be sent with a null record, containing just the NSP and metering installation fields (if applicable). For example, a participant submits the following file:

```
HDR,NSPMTRG,ABCD,NZRM,20/06/2015,13:00:00,TPR,3,free text here
```

```
DEF1111WXYZ,ABC,ABC,MTRG_001,16/3/2016
```

To reverse this record, the following file would need to be sent:

HDR,NSPMTRG,ABCD,NZRM,22/06/2015,13:00:00,TPR,3,free text here

DEF1111WXYZ,ABC , ,MTRG_001,

In other circumstances null values would not be accepted by the system. For example, the following file would be *rejected* for upload

HDR,NSPMTRG,ABCD,NZRM,20/08/2015,13:00:00,TPR,3,free text here

GHI1111WXYZ, ,ABC,MTRG_001,16/3/2018

6. If metering exemption expiry date column is used, the system will reject any file where there is a metering equipment provider participant, metering installation or metering certification expiry date.

e.g. Exempted from providing NSP metering information

HDR,NSPMTRG,ABCD,NZRM,15/06/2015,15:00:00,TPR,3,free text here

ABC1111WXYZ,ABCD,DEFG,MTRG_0001,31/12/2020,

ABC1111WXYZ,ABCD,DEFG,MTRG_0002,31/12/2030,

DEF1111WXYZ,ABCD,,,31/12/2010

5.3.Format of files from the reconciliation manager

Notes on files from the reconciliation manager:

- Numeric fields will contain trailing zeros e.g. if the format has two decimal places, 'zero' will be 0.00 and 'one' will be 1.00.
- Revision cycles will be two characters i.e. 00, 01, 03, 07, 14, 18 & 24.

5.3.1. GR-010 Reconciliation data

Where a participant is a buyer and a seller, two reports will be provided.

Attributes	Format	Comments
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Buyer	Char 4	Either a purchaser or the clearing manager.
Seller	Char 4	Either a generator or the clearing manager.
Contract number	Char 5	From the reference data.
Trading date	Date	DD/MM/YYYY
Trading period values in kWh (1...46/48/50)	Numeric 8	Normally 48 values comma delimited but 46 or 50 at daylight saving.
Checksum	Numeric 10	Calculated.

5.3.2. GR-015 Processed dispatchable demand data

Attributes	Format	Comments
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Buyer	Char 4	The clearing manager identifier.
Seller	Char 4	The reconciliation participant identifier.
Dispatch capable load station identifier	Char 5	From the dispatchable demand information.
Trading date	Date	DD/MM/YYYY
Trading period values in kWh (1...46/48/50)	Numeric 8	Normally 48 values comma delimited but 46 or 50 at daylight saving.
Checksum	Numeric 10	Calculated.

5.3.3. GR-020 Profile shape data

Attributes	Format	Comments
POC	Char 7	From the NSP.
Network ID	Char 4	From the NSP.
Profile	Char 3	Profile code from original submission. NSP—'Initial residual profile shape'. RPS—'Final residual profile shape'.
Trading date	Date	DD/MM/YYYY.
Trading period	Numeric 2	1 to 48 (46/50 for daylight saving change days).
Shape value	Numeric 12, 2	The value in a trading period will be zero if the 'on and off time' indicates it was switched 'off'.

5.3.4. GR-030 Seasonal profile shape

Attributes	Format	Comments
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Profile	Char 3	'NSP derived' profile.
Trading date	Date	DD/MM/YYYY.
Daily value	Numeric 12, 2	Calculated.

5.3.5. GR-040 Balanced NHH and HHR data

Attributes	Format	Comments
POC	Char 7	From the NSP from the original submission or the NSP created during the balancing process.
Network ID	Char 4	From the NSP from the original submission or the NSP created during the balancing process.
Reconciliation type	Char 2	From the original submission
Participant code	Char 4	Participant code from the original submission.
Profile	Char 3	Profile code from the original submission.
Loss category code	Char 7	From the original submission

Flow direction	Char 1	X—Load (exit) I—Injection from the original submission.
Dedicated NSP	Char 1	Y/N from the original submission
Trading date	Date	DD/MM/YYYY.
Trading period value (1...46/48/50)	Numeric 8	Normally 48 values but 46 or 50 at daylight saving.
Checksum	Numeric 10	Calculated.

5.3.6. GR-045 Balanced against pre loss adjusted NHH and HHR data

Attributes	Format	Comments
POC	Char 7	From the NSP from the original submission or the NSP created during the balancing process.
Network ID	Char 4	From the NSP from the original submission or the NSP created during the balancing process.
Reconciliation type	Char 2	From the original submission
Participant code	Char 4	Participant code from the original submission.
Profile	Char 3	Profile code from the original submission.
Loss category code	Char 7	From the original submission
Flow direction	Char 1	X—Load (exit) I—Injection from the original submission.
Dedicated NSP	Char 1	Y/N from the original submission
Trading date	Date	DD/MM/YYYY.
Trading period value – final balanced (1...46/48/50)	Number 8	Normally 48 values but 46 or 50 at daylight saving.
Checksum of final balanced values	Number 10	Calculated
Trading period value – pre loss adjusted (1...46/48/50)	Number 8	Normally 48 values but 46 or 50 at daylight saving.
Checksum of pre loss adjusted values	Number 10	Calculated

5.3.7. GR-050 Summary of traded kWhs

Attributes	Format	Comments
------------	--------	----------

POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Reconciliation type	Char 2	From the original submission
Participant code	Char 4	Participant code.
Loss category code	Char 7	From the original submission
Flow direction	Char 1	X—Load (exit) I—Injection from the original submission.
Consumption period	Month	MM/YYYY.
Total kWh	Numeric 12, 2	Calculated.

5.3.8. GR-060 UFE factors

Trading period report:		
Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Trading date	Date	DD/MM/YYYY
Trading period	Numeric 2	Trading period – 1 to 48 (46 or 50 for daylight savings).
UFE factor for the balancing area	Numeric 2, 1	Obtained from RS-090 for the balancing area and trading period.
Total UFE of balancing area in kWh	Numeric 12, 2	UFE for balancing area and trading period obtained from RS-090.
Total UFE of NSP in kWh	Numeric 12, 2	Sum of all participants' UFE for the NSP and trading period within the balancing area.
Total UFE of participant in kWh	Numeric 12, 2	This participant's UFE for the NSP and trading period within the balancing area.
Monthly summary report:		

This report uses the trading period report as its basis but aggregates the trading period information to produce consumption period totals. It is also used as the basis for the GR-120 report.

Attributes	Format	Validations/calculations
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
UFE factor for the balancing area	Numeric 2, 1	Calculated. See Processing section.
Total UFE of balancing area in kWh	Numeric 12, 2	Sum of the trading period UFE for the balancing area obtained from RS-090.
Total UFE of NSP in kWh	Numeric 12, 2	Sum of all participants' UFE for the NSP within the balancing area.
Total UFE of participant in kWh	Numeric 12, 2	This participant's UFE for the NSP within the balancing area.

12-monthly summary report:

This is calculated and has the same format as the monthly summary except all prior 12 consumption periods are reported and only the latest revision cycle is extracted.

5.3.9. GR-065 UFE factors report to distributors

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Trading date	Date	DD/MM/YYYY

Trading period	Numeric 2	Trading period – 1 to 48 (46 or 50 for daylight savings).
UFE factor for the balancing area	Numeric 2, 1	Obtained from RS-090 for the balancing area and trading period.
Total UFE of balancing area in kWh	Numeric 12, 2	UFE for balancing area and trading period obtained from RS-090.
Total UFE of NSP in kWh	Numeric 12, 2	Sum of all participants' UFE for the NSP and trading period within the balancing area.
Total UFE of participant in kWh	Numeric 12, 2	This participant's UFE for the NSP and trading period within the balancing area.

5.3.10. GR-070 Scorecard and market share

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Trading date	Date	DD/MM/YYYY
Trading period	Numeric 2	Trading period – 1 to 48 (46 or 50 for daylight savings).
Scorecard rating	Numeric 1, 2	(At the balancing area level)
Market share	Numeric 2, 2	

5.3.11. GR-080 ICP days scaling

Data outputs:		
Report row layout		
Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.

Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Metering type	Char 3	NHH or HHR.
Scaling factor	Numeric 2, 5	

5.3.12. GR-090 Missing HHR ICP's

Data outputs:		
Report row layout (NB: this information is further summarised in GR-140.)		
Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Discrepancy type	Char 1	R = ICP missing in registry list. A = ICP missing in monthly aggregates.
ICP#	Char 15	

5.3.13. GR-100 ICP days comparison

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Metering type	Char 3	HHR or NHH.
Registry ICP days	Numeric 9	
ICP days	Numeric 9	

Difference (registry - purchaser)	Numeric -9	Calculated.
Percentage difference	Numeric -3, 2	Calculated.

5.3.14. GR-110 Switched ICP's over consumption threshold

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
POC	Char 7	From NSP code.
Network ID	Char 7	From NSP code.
ICP#	Char 15	
Losing retailer	Char 4	Retailer code.
Gaining retailer	Char 4	Retailer code.
Average daily consumption of losing retailer	Numeric 12, 2	If missing, percentage variance will be 100%.
Average daily consumption of gaining retailer	Numeric 12, 2	If missing, percentage variance will be 100%.
Percentage variance	Numeric 4, 1	Calculated.

5.3.15. GR-120 Unaccounted for electricity

File format:
See monthly summary report output of GR-060.

5.3.16. GR-130 Electricity supplied/submitted comparison

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
Participant code	Char 4	Participant code of retailer.

Total retailer consumption from submissions	Numeric 12, 2	
Total retailer sales (electricity supplied)	Numeric 12, 2	
Difference kWh	Numeric 12, 2	
Sales/submission ratio	Numeric 2, 4	

5.3.17. GR-140 Missing HHR ICP's summary

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Participant code	Char 4	Participant code of purchaser.
Number of discrepancies (ie count of input rows per purchaser)	Numeric 8	Calculated.

5.3.18. GR-145 Report monthly ICP submissions aggregate

Attributes	Format	Comments
Participant identifier	Char 4	Valid trader or direct purchaser participant identifiers
Consumption period	MM/YYYY	Valid month
ICP number	Char 15	
POC	Char 7	Valid POC code
Network code	Char 4	Valid network code
Flow direction	Char 1	X – Load (Consumption) I -- Injection
Monthly quantity in kWh	Numeric 14, 0	

5.3.19. GR-150 ICP days comparison summary

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.

Participant code	Char 4	Participant code of purchaser.
Metering type	Char 3	NHH or HHR.
Difference (registry - purchaser)	Numeric 9	

5.3.20. GR-160 Purchasers' average NHH kWh

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
All purchasers' average daily NHH kWh	Numeric 12, 2	Calculated.
Participant code	Char 4	Participant code of purchaser.
Purchaser average daily NHH kWh	Numeric 12, 2	Calculated.
Percentage variation	Numeric 3, 2	Calculated.

5.3.21. GR-170 Purchasers' submission accuracy

Two reports will be provided – one for metering type HHR and one for metering type NHH.

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
Balancing area	Char 12	Balancing area code.
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
Participant code	Char 4	Participant code of purchaser.
Metering type	Char 3	HHR or NHH.
Total monthly submission volume	Numeric 12, 2	Calculated.
Total monthly historical estimate volume	Numeric 12, 2	Calculated.

Percentage of historical estimate in this revision's submission	Numeric 3, 2	Calculated.
Percentage variation of this revision's submission volume against the initial revision cycle	Numeric 3, 2	Calculated. Percentage increase or decrease.
Percentage variation of this revision's historical estimate against the historical estimate in the initial revision cycle	Numeric 3, 2	Calculated. Percentage increase or decrease.

5.3.22. GR-190 Report annual consumption list

Attributes	Format	Comments
POC	Char 7	Point of connection – from Grid Exit/Injection Point Code
Network code	Char 4	Network code – from Grid Exit/Injection Point code
Flow direction	Char 1	X – Load (Consumption)
Consumption (GWh)	Numeric 8	Calculated – Total annual consumption at node over report period

5.3.23. GR-210 Consumption Generation Summary

Attributes	Format	Comments
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
Participant code	Char 4	Participant code of purchaser / supplier
Flow direction	Char 1	X or I
Profile Type	Char 10	Profile type
Input quantity	Number 12, 2	Calculated
Output quantity	Number 12, 2	Calculated

5.3.24. GR-220 Monthly Levy Report

Attributes	Format	Comments
Consumption period	YYYYMM	MM/YYYY.

Reconciliation Run ID	Numeric	Unique run indicator
Participant code	Char 4	Participant code of purchaser / supplier
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
Reconciliation Type	Char 2	Reconciliation type
X Flow	Numeric 12, 2	Calculated
I Flow	Numeric 12, 2	Calculated

5.3.25. GR-225 Electricity Conveyed Report

Attributes	Format	Comments
Consumption period	YYYYMM	MM/YYYY.
Reconciliation Run ID	Numeric	Unique run indicator
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
X Quantity	Numeric 12, 2	Calculated
Embedded Generation	Numeric 12, 2	Calculated
I Quantity	Numeric 12, 2	Calculated
Total	Numeric 12, 2	Calculated

5.3.26. GR-230 Submitted NSP Volumes

Attributes	Format	Comments
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
Reconciliation Type	Char 2	From NSP code.
Participant code	Char 4	Participant code of purchaser / supplier
X Flow	Number 12, 2	Calculated
I Flow	Number 12, 2	Calculated

5.3.27. GR-235 Submitted NSP volumes by training period

Attributes	Format	Comments
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.

Reconciliation Type	Char 2	From NSP code.
Participant code	Char 4	Participant code of purchaser / supplier
Profile code	Char 4	HHR
Loss category	Char 4	Loss category of the reconciliation participant
Flow direction	Char 1	X – Load (exit) I -- Injection
Dedicated NSP	Char 1	Y -- Yes
Trading date	DD/MM/YYYY	
Trading period quantity in kWh	Number 14, 2	A series of comma delimited values 1—48 (46/50 for daylight saving)
Checksum	Number 14, 2	Sum of the row trading period quantities

5.3.28. GR-240 Balanced Data Summary

Attributes	Format	Comments
POC	Char 7	From NSP code.
Network ID	Char 4	From NSP code.
Reconciliation Type	Char 2	From NSP code.
Participant code	Char 4	Participant code of purchaser / supplier
Flow direction	Char 1	X or I
Profile Type	Char 10	Profile type
Input quantity	Number 12, 2	Calculated
Output quantity	Number 12, 2	Calculated

5.3.29. GR-250 Distributor Report – Electricity Traded

Attributes	Format	Comments
POC	Char 7	From the NSP from the original submission or the NSP created during the balancing process.
Network ID	Char 4	From the NSP from the original submission or the NSP created during the balancing process.
Reconciliation type	Char 2	From the original submission.
Participant identifier	Char 4	Participant identifier from the original submission.
Profile	Char 3	Profile code from the original submission.

Loss category code	Char 7	From the original submission.
Flow direction	Char 1	X—Load (exit) I—Injection from the original submission.
Dedicated NSP	Char 1	Y/N from the original submission.
Trading date	Date	DD/MM/YYYY.
Trading period value (1...46/48/50)	Numeric 8	Normally 48 values but 46 or 50 at Daylight Saving.
Checksum	Numeric 10	Calculated.

5.3.30. GR-260 Distributor Report – Electricity Submitted

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
POC	Char 7	From the NSP from the original submission.
Network ID	Char 4	From NSP Code
Participant code	Char 4	Participant code of retailer.
Metering type	Char 3	HHR or NHH.
Trading date	Date	DD/MM/YYYY (For monthly NHH submissions the Trading Date shown will be the first day of the Consumption Period)
Total retailer submissions (electricity submitted)	Numeric 12, 2	

5.3.31. GR-265 Distributor Report – Electricity Supplied

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
POC	Char 7	From the NSP from the original submission.
Network ID	Char 4	From NSP Code
Participant code	Char 4	Participant code of retailer.
Metering type	Char 3	HHR or NHH.
Trading date	Date	DD/MM/YYYY (For monthly NHH submissions the Trading Date shown will be the first day of the Consumption Period)
Total retailer submissions (electricity submitted)	Numeric 12, 2	
Flow Direction	Char 1	X—Load (exit) I—Injection from the original submission.
Loss Category	Char 7	From the original submission.

5.3.32. GR-270 Distributor Report – Electricity Supplied

Attributes	Format	Comments
Consumption period	Month	MM/YYYY.
Revision cycle	Numeric 2	0, 1, 3, 7, 14.
POC	Char 7	From the NSP from the original submission.
Network ID	Char 4	From NSP Code
Participant code	Char 4	Participant code of retailer.
Total electricity supplied	Numeric 12, 2	

5.3.33. GR-280 Report UFE rolling 24 months

Attributes	Format	Validations/calculations
Consumption Period	MM/YYYY	
Revision Cycle	Number 2	0, 1, 3, 7, 14.
Balancing Area	Char 12	Balancing area code
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Total UFE of balancing area in kWh	Number 14, 2	UFE for balancing area obtained from RS-090.
Total UFE of NSP in kWh	Number 14, 2	Sum of all participants' UFE for the NSP within the balancing area.
Total Balancing Area Load	Number 14, 2	The total balancing area load (calculated from RS-070)

5.3.34. GR-290 Report NSP final residual profile shapes

Attributes	Format	Description
POC	Char 7	From the NSP.
Network ID	Char 4	From the NSP.
Profile	Char 3	RPS—'Final residual profile shape'.
Trading date	DD/MM/YYYY	

Trading period	Number 2	1 to 48 (46/50 for Daylight Saving change days).
Shape value	Number 14, 2	The value in a trading period will be zero if the 'on and off time' indicates it was switched 'off'.

5.3.35. GR-300 Report seasonal profile shape summary

Attributes	Format	Description
POC	Char 7	From the NSP code.
Network ID	Char 4	From the NSP code.
Participant code	Char 4	Participant code of purchaser.
Profile	Char 3	NSP 'initial residual profile shape'
Trading date	DD/MM/YYYY	
Daily value	Number 14, 2	Calculated.

5.3.36. GR-310 Report grid NSP information

Attributes	Format	Description
POC	Char 7	From the NSP from the original submission.
Network ID	Char 4	From the NSP from the original submission.
Reconciliation type	Char 2	From the original submission.
Participant code	Char 4	Participant code from the original submission.
Profile	Char 3	Profile code from the original submission.
Loss category code	Char 7	From the original submission.
Flow direction	Char 1	X—Load (exit) I—Injection from the original submission.
Dedicated NSP	Char 1	Y/N from the original submission.
Trading date	DD/MM/YYYY	From the original submission.
Trading period quantities (1...46/48/50)	Number 14, 2	Series of comma delimited of normally 48 values but 46 or 50 at Daylight Saving from the original submission.
Checksum	Number 14, 2	Must be the sum of the row trading period quantities

5.3.37. GR-320 Report embedded generation

Attributes	Format	Description
Consumption period	Char 6	Consumption Period (format 'YYYYMM')
POC Code	Char 7	Point of Connection
Embedded Generation	Number 14, 2	Embedded Generation: I flow from NHH and HHR submission data.

5.3.38. GR-330 Report Retailer submissions by revision

Attributes	Format	Description
Revision Cycle	Number 2	e.g. 0, 1, 3, 7, 14.
Consumption Period	YYYY/MM	e.g. 201707
POC	Char 7	From the NSP code
Network code	Char 4	From the NSP code
Reconciliation type	Char 2	GN – point of connection to the grid EN – Embedded network
Reconciliation participant	Char 4	Valid reconciliation code for participant
Metering type	Char 3	NHH or HHR
Flow direction	Char 1	X – Load (exit) I -- Injection
Total submissions of current revision	Number 14, 2	Sum of submissions
Total submissions of previous revision	Number 14, 2	Sum of submissions

Total submissions of initial revision	Number 14, 2	Sum of submissions
Percentage change of current from initial	Number 6, 2	Sum of submissions of (current – initial) / current revisions

5.3.39. GR-340 Report UFE by revision

Attributes	Format	Description
Revision Cycle	Number 2	e.g. 0, 1, 3, 7, 14.
Consumption Period	YYYY/MM	e.g. 201707
Balancing Area	Char 12	Balancing area code
Reconciliation type	Char 2	GN – point of connection to the grid EN – Embedded network
Total balancing area load of current revision	Number 14, 2	Sum of balancing area load
Total UFE of current revision	Number 14, 2	Sum of UFE
Total UFE of previous revision	Number 14, 2	Sum of UFE
Total UFE of initial revision	Number 14, 2	Sum of UFE
Current UFE fraction	Number 5, 4	Current UFE / Total Balancing area load
Initial UFE fraction	Number 5, 4	Initial UFE / Total Balancing area load

5.3.40. GR-350 grid owner embedded generation

Attributes	Format	Description
Grid level POC	Char 7	Grid level parent NSP of the submitted volume (point of connection).
Grid level network	Char 4	Grid level parent NSP of the submitted volume (network).
Grid level reconciliation type	Char 2	GN
Grid owner participant	Char 4	TPNZ
Profile	Char 3	HHR
Loss code	Char 4	Special case: DRL = Residual load data This is recon type SB, loss code default
Flow direction	Char 1	I -- Injection
Dedicated to grid NSP		Y - Yes
Trading date	DD/MM/YYYY	
Trading period values kWh (1.....46,48,50)	Number 14, 2	48 (46/50 on daylight savings end/start days) comma separated volumes.

5.3.41. NT-030 Notify outage constraints

Attributes	Format	Description
NSP	Char 12	POC and network ID
Start Date	DD/MM/YYYY	From system operator's submission
Start Period	Number 2	From system operator's submission
End Date	DD/MM/YYYY	From system operator's submission
End Period	Number 2	From system operator's submission

5.3.42. NT-050 Report Network Supply Points

Attributes	Format	Description
POC Code	Char 7	Valid POC Code
Connecting asset identifier	Char 4	Valid NWK Code
Reconciliation type	Char 2	Valid Reconciliation Type
X flow Y or N	Char 1	Load flow Yes or No
I flow Y or N	Char 1	Injection flow Yes or No.
POC name	Char 32	NSP Description
Balancing Area Code	Char 12	Valid Balancing Area Code
Embedded under POC code	Char 7	Valid Embedded under POC Code
Embedded under connecting asset identifier	Char 4	Valid Embedded under NWK Code
Start Date	Char 10	Start Date of the NSP mapping (DD/MM/YYYY)
Start Trading Period	Char 2	Start Trading Period for the NSP mapping (1..50)
End Date	Char 10	End Date for the NSP mapping (DD/MM/YYYY)
End Trading Period	Char 2	End Trading Period for the NSP Mapping (1..50)
SB ICP when EN differenced settlement	Char 15	Valid SB ICP
Island Identification	Char 2	Valid Island Code
Participant responsible for providing the metering installation	Char 4	Valid Responsible Party Code

Metering Equipment Provider identifier	Char 4	Valid Metering Provider Code
Earliest meter installation certification expiry date	Char 10	Valid Certification Expiry Date (DD/MM/YYYY)
Metering Exemption Expiry Date	DD/MM/YYYY	Optional.

3. Appendix 1: Example load order for a zipped archive containing three files:

Background:

- A participant has two GXPs (ABC0123 and DEF0123) during May 2014
- They submit separate half hourly volume files for both
- They want to submit a file containing only zeroes for both locations to zero out earlier submissions.

Scenario:

1. The participant creates submission files for the two GXPs on two consecutive days and the 'zero file' on the second day.
2. They compress all three files into a zip file, PART_E_NZRM_COMPRSU_201405_20140603_0001.zip and upload it to the Reconciliation website.
3. The Reconciliation system unpacks the files and loads them in alphanumeric order, as follows:

Load Order	Filename	Description	Result
1	PART_E_NZRM_HHRVOLS_201405_20140603_0002.csv	Half hourly volumes file containing new submissions for GXP ABC0123	Data loaded for ABC0123.
2	PART_E_NZRM_HHRVOLS_201405_20140604_0001.csv	Half hourly volumes file containing zeroes at all locations (ABC 0123 and DEF0123)	Overwrites PART_E_NZRM_HHRVOLS_201405_20140603_0002.csv. ABC0123 and DEF0123 are both zeroed.
3	PART_E_NZRM_HHRVOLS_201405_20140604_0002.csv	Half hourly volumes file containing new submissions for GXP DEF0123	Overwrites PART_E_NZRM_HHRVOLS_201405_20140604_0001.csv. ABC0123 is still zeroed, but DEF0123 now shows values submitted in PART_E_NZRM_HHRVOLS_201405_20140604_0002.csv

Problem:

The participant may have meant to zero all their previous submissions prior to making new submissions but, because the system loads the files in alphanumeric order, the net effect is that they have no current volumes submitted for ABC0123. The reconciliation manager may or may not detect this type of error.

Solution:

The participant should have ensured that the second file (containing zeroes) was given a name that was alpha-numerically earlier than the first file (containing submissions for ABC0123), e.g. PART_E_NZRM_HHRVOLS_201405_20140603_0001.csv