Electricity Information Exchange Protocols (EIEP)

EIEP5B: Unplanned service interruptions

Non-regulated

Effective from 1 October 2019

Version control

Version	Date amended	EIEP Ref	Comments
10	27 November 2013	EIEP5	Sender format field decreased from 50 to 20 characters.
10.1 draft	30 June 2017	EIEP5B	Amendments include: Improvements to add clarity and consistency to content Outcome from split of former combined EIEP5 (Service interruptions) into separate EIEP5A (Planned service interruptions) and EIEP5B (Unplanned service interruptions)
11	2 October 2018	EIEP5B	

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1 EIEP5B: Unplanned service interruptions

Title:	**EIEP5B: Unplanned service interruptions**
Version:	11
Application:	This protocol applies to all distributors to provide information to traders for unplanned service interruptions.
Participants:	Distributor/Trader
Code reference:	
Dependencies:	The use of system agreement between the distributor and the trader may also set out requirements relating to the information that must be provided in this file that the distributor or the trader must comply with.

Description of when this protocol applies
This protocol is used by distributors to provide traders with information relevant to unplanned service interruptions. The file may be used by traders to record details of unplanned service interruptions within their customer information systems.

Business requirements

1. The distributor and each trader must agree on the file transport mechanism by which the trader or distributor will provide information and the destination address. Non-manual interfaces use electronic file transfer either via File Transfer Protocol (FTP) or Secure File Transfer Protocol (SFTP) connectivity. In the case of FTP a security mechanism must be used to protect confidentiality. Whatever method is agreed that method must be in a format approved and published by the Authority.
2. Where information is required to be transferred using email, the contents must be delivered in a secure manner and password protected.
3. This protocol will be used in the timeframes when required as agreed between parties.
4. An agent may provide data on behalf of the distributor, in which case the header will identify the relevant parties. The appointment of an agent must be a permission function of the responsible reconciliation participant and receiving participants must allow for agents in their systems.
5. Only codes that are stipulated in this document, or are Electricity Authority approved published codes, or are codes determined in the registry and reconciliation functional specifications are to be used
6. Information provided in the file will be consistent with the terminology used in the Glossary of Standard Terms published by the Authority.
7. The file must contain all mandatory information, failure to provide the required information will result in the file being deemed as incomplete.
8. Information is to be provided in accordance with the following status codes unless otherwise specified:
   - O Optional
   - M Mandatory where applicable
   - C Conditional - Mandatory if available, otherwise Null (also refer to validation rules)
9. To assist in understanding where these apply when files can be communicated both ways between participants, the relevant status code is given in the assigned column either Trader to Distributor or Distributor to Trader
10. The file can be used for initial advice of unplanned interruptions to supply, updates on the interruption

Business requirements
to supply, and for advice when the supply has been restored. 11. For initial advice of unplanned service interruptions, this file can be used by distributors to notify traders that an interruption to the supply in a particular area has occurred. A list of the ICPs affected should be included if available. 12. This file can also be used for status updates on unplanned service interruptions. Should a group of ICPs be restored earlier, or should a handful be restored later, any update should be sent using the same event number. 13. The recipient is to ensure that they apply the files in the order that they are received, with the latest information being the most current. 14. The distributor event number must include the original event number in the 'distributor event number' field if amending or cancelling a file. There is to be one file per change and the "communication type" code will determine what that change is. 15. For log jobs if the designation is "N", the distributor is requesting that the trader not send any further notification through regarding any service interruption calls the trader receives unless it is for safety or emergency reasons, or additional details have been provided that may be useful to assist with the service interruption restoration. 16. If the trader or distributor becomes aware of a format error or the file is incomplete, that party must advise the other party as soon as practical after becoming aware of the issue. 17. If no agreement can be reached as to whether the file is to be a partial or full replacement for the correction of the error as noted above, then a full replacement file is required.

General requirements
1. If there are any conflicts between this document and the Code, the Code will take precedence. 2. In general, all participants must provide the recipient with: (a) accurate information for all points of connection at which they are responsible for the current consumption period (b) when available, revised information for all points of connection at which they have purchased or sold electricity during any previous consumption period (c) any additional information requested in respect of any consumption period. 3. A number of data transfers are required between participants in order for the EIEP process to take place. These data flows if not previously agreed between participants are to be those recommended by the Authority. At all times data transfers must take place in a secure and predictable manner. 4. It is the responsibility of the parties to meet the principles of the Privacy Act when exchanging customer information.

Data inputs

Event data	Format	Distributor to Trader: Mandatory/Optional/Conditional	Validation rules
Header record type	Char 3	M	HDR – indicates the row is a header

Event data	Format	Distributor to Trader: Mandatory/Optional/Conditional	Validation rules
			record type
File type	Char 7	M	Unplanned Service Interruption UPINT
Version of EIEP	Num 3.1	M	Version of EIEP protocol that is being used for this file.
Sender	Char 20	M	Name of sending party. Participant identifier to be used if the sender is a participant.
Sent on behalf of	Char 4	C	Participant identifier of party on whose behalf consumption data is provided. Mandatory if sender not a participant
Recipient Participant identifier	Char 4	M	Valid recipient participant identifier
Report run date	DD/MM/YYYY	M	Date the report is run
Report run time	HH:MM:SS	M	Time the report is run
Unique File identifier	Char 15	M	Number that uniquely identifies the file
Number of detail records	Num 8	M	Total number of records in report
Communication Type	Char 3	M	As per table of Unplanned Service Interruption Communication Type Codes
Report period start date	DD/MM/YYYY	M	Report run start date (inclusive)
Report period end date	DD/MM/YYYY	M	Report run end date (inclusive)
Utility type	Char 1	M	Type of energy supply; G = Gas; or E = Electricity

Event data	Format	Distributor to Trader: Mandatory/Optional/Conditional	Validation rules
Detail record type	Char 3	M	DET – indicates the row is a detail record.
ICP identifier	Char 15	M	ICP identifier means a unique identifier for an ICP created by a distributor in accordance with clause 1 of Schedule

Event data	Format	Distributor to Trader: Mandatory/Optional/Conditional	Validation rules
			11.1
Feeder	Char 20	O	Transformer and feeder number if available.
Street/area affected	Char 255	M	Best description of locality affected
Log jobs	Char 1	M	Y (Yes) or N (No) - confirms if trader to advise of any new interruptions reported in same area.
Interruption reason	Char 50	M	Description of cause of unplanned interruption to supply
Distributor event number	Char 15	C	Distributor's unique reference number for unplanned service interruption if applicable
Interruption start date	DD/MM/YYYY	M	Date interruption commenced
Interruption restore date	DD/MM/YYYY	M	Most accurate indication of date when power will be restored
Interruption start time	HH:MM	M	Time interruption started
Interruption expected or actual restore time	HH:MM	M	Most accurate indication of time when power will be restored

Protocol specifications

1. The information is to be provided as a comma delimited text file. Commas are therefore prohibited within fields.
2. Each formatted file will consist of one or more records, with each record being a single line of text as defined in the business rules. Records are to be delimited with one of the following:

    (a) a carriage return character and a line feed character combination (ASCII characters 13 and 10) commonly used in Windows based programs, or

    (b) a line feed character (ASCII character 10) commonly used in Unix based programs, or

    (c) a carriage return character (ASCII character 13) commonly used in Mac based programs.
3. Data fields within files are defined using the attributes in the table following these specifications.
4. Matching of file names, code list values, etc, are to be case insensitive.
5. Each data file will contain only one header but can contain any number of detail records.

Protocol specifications
6. The first record of a file contains 'Header' information followed by zero or more detail lines. 7. The following file naming convention is to be used with this file: Sender + Utility Type + Recipient + File Type + Report Month + Report Run Date + UniqueID# (e.g. hhmm run time, or ICP but limited to Char (60)) with an extension of .TXT and with the components concatenated using the underscore character, to assist readability. e.g. TRUS_E_UNET_ UPINT_200007_20000802_1232.TXT [Char4_Char1_Char4_ Char7_yyyymm_yyyymmdd_UniqueID.TXT]

Data outputs

2 Table of codes used in EIEP5B

2.1 Table 1 List of attributes to define data fields used in EIEP5B

Logical format	Data type	Rules	Example
INT (n)	Integer	ASCII representation of an integer number (ie no decimals), no leading zeros, no spaces, a leading "-" if negative (no sign if positive), with 1 to n digits. Numbers only: ASCII characters 48 to 57, and 45 where applicable.	INT (4) 12 -1234
NUM (n.d)	Decimal	ASCII representation of a decimal number (ie a rational number), no spaces, a leading "-" if negative (no sign if positive), with up n digits including up to (n minus d) digits to the left of the decimal place, and up to d digits to the right of the decimal place. For integers, the decimal point is not required. A decimal point on its own must not be used to represent zero (use "0") Trailing zeros are optional. No leading zeros other than when the number starts with "0." Numbers only: ASCII characters 48 to 57, and 45/46 where applicable.	NUM (6.2) 123.45 1234.0 -12.32 NUM (6.3) -0.123 23.987 987.000 8

Logical format	Data type	Rules	Example
CHAR (n)	Text	Up to n characters (ASCII characters 32 to 43 and 45 to 126 only). As commas (ASCII character 44) are used as field separators, they must not be used within the field data (it is recommended that any commas found in source data be changed to a semi-colon (ASCII character 59) when files are created. Fields must not contain any leading or trailing spaces.	The quick brown fox
DATE	Date	ASCII format with: Year represented as: — YYYY for century and year Month represented as: — MM to display leading zero Day represented as — DD to display leading zero ASCII format for any separators used	YYYYMMDD e.g. 20050216 DD/MM/YYYY e.g. 16/02/2005
TIME	Time	ASCII in 24 hour format Hour represented as HH with leading zeros Minutes represented as MM with leading zeros Seconds represented as SS with leading zeros ASCII format for any separators used Note: both NZST and NZDT will be used and will be indicated as necessary	HH:MM:SS e.g. 13:15:01 HH:MM e.g. 13:15
DATETIME	Date/Time	ASCII format with same rules as both Date and Time Data Types	YYYYMMDDHHMMSS e.g. 20050216131501
NULL	Null	Field contains no data	

2.2 Table 2 ASCII character set for use within fields of EIEP5B

Character	ASCII
32	Space
33	!
34	"
35	#
36	$
37	%
38	&
39	'
40	(
41	)
42	*
43	+
45	-
46	.
47	/
48	0
49	1
50	2
51	3
52	4
53	5
54	6
55	7
56	8
57	9
58	:
59	;
60	<
61	=
62	>
63	?

Character	ASCII
64	@
65	A
66	B
67	C
68	D
69	E
70	F
71	G
72	H
73	I
74	J
75	K
76	L
77	M
78	N
79	O
80	P
81	Q
82	R
83	S
84	T
85	U
86	V
87	W
88	X
89	Y
90	Z
91	[
92	\
93	]
94	^
95	_
96	`

Character	ASCII
97	a
98	b
99	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n
111	o
112	p
113	q
114	r
115	s
116	t
117	u
118	v
119	w
120	x
121	y
122	z
123	{
124	|
125	}
126	~

2.3 Table 3 Unplanned service interruption communication type codes for use in EIEP5B

Communication type code	Description
UPI	Unplanned Service Interruption - Initial Advice
UPU	Unplanned Service Interruption - Update
UPR	Unplanned Service Interruption - Supply Restored