

Information Documents are not authoritative. Information Documents are for information purposes only and are intended to provide guidance. In the event of any discrepancy between an Information Document and any Authoritative Document(s)¹ in effect, the Authoritative Document(s) governs.

1 Purpose

This Information Document relates to the following Authoritative Document:

- Alberta reliability standard BAL-005-AB-1, *Balancing Authority Control* (“BAL-005”).

The purpose of this Information Document is to provide a list of metering points and their associated data used for calculation of reporting area control error by the AESO per requirement R3 and to provide additional information relating to requirement R7.

2 Background

BAL-005 establishes the requirements for acquiring data necessary to calculate reporting area control error within the AESO’s energy management system. Included in BAL-005 are requirements detailing periodicity, accuracy and availability for data acquisition from those metering points owned by the legal owner of a transmission facility. The inter-control center communications protocol (ICCP) name of the metering points the AESO uses for calculating reporting area control error are provided by the AESO to enable the legal owner of a transmission facility to map the physical common meter and any identified frequency meter providing the data.

3 Identified Source of Frequency Metering and Intertie Metering Data

The AESO identifies the source of the frequency metering data and intertie metering data in *Appendix 1 - Identified Source of Frequency Metering Data and Intertie Metering Data* of this document.

4 Unfiltered Data

The legal owner of a transmission facility is expected to provide unfiltered megawatt metering data for interconnections or area control error signals transmitted to the AESO. The purpose of unfiltered data is to ensure the instantaneous megawatt metering data and area control error signals from the originating site (i.e. remote terminal unit) are the same as the data and signals received by the AESO. Note that this filtering does not prohibit the scaling of data.

5 Appendices

Appendix 1 - *Identified Source of Frequency Metering Data and Intertie Metering Data*

Revision History

Posting Date	Description of Changes
2020-01-24	Amended Sections 1, 2 and 4 to reflect new version of standard BAL-005-AB-1 Balancing Authority Control and title change. Moved tables back into ID as Appendix 1 - Revisions to Table 2 and Table 4 and title amendment.
2017-06-15	Revisions to Table 1

¹ “Authoritative Documents” is the general name given by the AESO to categories of documents made by the AESO under the authority of the *Electric Utilities Act* and associated regulations, and that contain binding legal requirements for either market participants or the AESO, or both. AESO Authoritative Documents include: the ISO rules, the Alberta reliability standards, and the ISO tariff.

2016-09-28	Administrative amendments and Revision to Table 2
2016-07-01	Moving tables into separate document and including a link to document on AESO website; Adding Section 4, Unfiltered Data; Administrative Updates
2013-09-19	Updated Table 2: Intertie Metering – Bennett (520S) due to recent work at the 102S and 520S substations Removed the initial release Table 5 as this is not a synchronous intertie Added a new Table 5 for MATL
2013-08-22	Initial Release

Appendix 1

Identified Source of Frequency Metering Data and Intertie Metering Data

For the purposes of Section 3 *Requirements*, of Alberta reliability standard BAL-005-AB-1, *Balancing Authority Control* (“BAL-005”), the source of the frequency metering data and the intertie (interconnection, pseudo-tie, dynamic schedule) metering data that is collected by the AESO, is identified below.

Frequency Metering Table

The table listed below includes the identified source of the frequency metering data as identified in the Requirements section of BAL-005, and relate specifically to requirement R3.

Table 1: Frequency Sources

Data Source	Measurement Location	ICCP Name
AESO GPS1	SCC - AESO System Control Centre	N/A - directly sourced through EMS
AESO GPS2	BUCC - AESO Backup Control Centre	N/A - directly sourced through EMS
AESO GPS3	SCC - AESO System Control Centre	N/A - directly sourced through EMS
AESO GPS4	BUCC - AESO Backup Control Centre	N/A - directly sourced through EMS
AltaLink	ACC – AltaLink Control Centre	W106ALAIES_ND_ALTALINK_FREQ_HZ

Intertie Metering Tables for Interconnections

The tables listed below include the identified source of the intertie metering data as identified in the Applicability section of BAL-005, and relate specifically to requirements R1 through R7.

Table 2: Intertie Metering - Bennett (520S)

Measurement	Data Source	ICCP Name
MW	Altalink	W106AL520S_LN_1201L_10A_P
	BCHA	W030_BNS_5L94_MW
	AltaLink	W106AL520S_LN_1201L_10A_BCKUP_P
	BCHA	W030_TAU_BNS_MW

MWh	AltaLink	W106AL520S_TYLN_1201L_10A_AC_PHI
	AltaLink	W106AL520S_TYLN_1201L_10A_AC_PHO
	AltaLink	W106AL520S_TYLN_1201L_10B_AC_PHI
	AltaLink	W106AL520S_TYLN_1201L_10B_AC_PHO
	BCHA	W030_BNS_5L94_MWH_IN
	BCHA	W030_BNS_5L94_MWH_OUT

Table 3: Intertie 887L Metering – Pocatererra (48S)

Measurement	Data Source	ICCP Name
MW	AltaLink	W106AL48S_LN_887L_01_P
	BCHA	W030_POC_1L274_MW
	AltaLink	W106AL48S_LN_BACKUP_P
MWh	AltaLink	W106AL48S_TYLN_887L_10_PHI
	AltaLink	W106AL48S_TYLN_887L_10_PHO
	BCHA	W030_POC_MWHR_IN
	BCHA	W030_POC_MWHR_OUT
	BCHA	W030_POC_TAU_MWHR

Table 4: Intertie 786L Metering – Natal / Coleman (799S)

Measurement	Data Source	ICCP Name
MW	AltaLink	W106ALBC_NT_LN_786L_1_P
	BCHA	W030_TAU_NTL_MW
	AltaLink	W106ALBC_NT_LN_BACKUP_P
	BCHA	W030_NTL_TAU_MW
MWh	AltaLink	W106ALBC_NT_TYLN_786L_PHI
	AltaLink	W106ALBC_NT_TYLN_786L_PHO
	BCHA	W030_NTL_1L275_MWHR_IN
	BCHA	W030_NTL_1L275_MWHR_OUT

Table 5: Intertie Metering – Picture Butte (120S)

Measurement	Data Source	ICCP Name/RTU Point
MW	Enbridge	120s Ln_941I_1 Mw (Card 1/RTU Point 13)
	NWMT	W106NWHAY_LAKE_LN_941L_1_P
	Enbridge	120s Ln_Backup_1_unc Mw (RTU Card 1/RTU Point 10)

MWh	Enbridge	120s Ln_Backup_1_unc Mw (RTU Card 1/RTU Point 15)
	Enbridge	120s Tyln_Matl_tie_ac Mwhi (RTU Card 4/RTU Point 0)
	Enbridge	120s Tyln_Matl_tie_ac Mwho (RTU Card 4/RTU Point 1)

Table 6: Intertie Metering – McNeil (840S)

Measurement	Data Source	ICCP Name
MW	ATCO	W106AT840S_LN_MCNEILL_SPCMCN_P
MWh	ATCO	W106AT840S_TYLN_MCNEILL_CONV_PHI
	ATCO	W106AT840S_TYLN_MCNEILL_CONV_PHO