Identified Source of Frequency Data and Intertie Metering Data

For the purposes of subsections (a) and (b) of section 2, *Applicability*, of Alberta Reliability Standard BAL-005-AB3-0.2b, *Automatic Generation Control* ("BAL-005"), the source of the frequency data and the intertie metering data that is collected by the Alberta Electric System Operator ("AESO"), is identified below.

Frequency Metering Table

The table listed below includes the identified source of the frequency data as identified in the Applicability section of BAL-005, and relate specifically to requirement R17.

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 R16.

Table 2: Intertie Metering - Bennett (520S)

Measurement	Data Source	ICCP Name
MW	BCHA	W030_BNS_5L94_MW
	BCHA	W030_TAU_BNS_MW
	BCHA	W030_CBK_5L94_MW
MWh	BCHA	W030_BNS_5L94_MWH_IN
	BCHA	W030_BNS_5L94_MWH_OUT
	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

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 Measurement	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
MWh	AltaLink	W106AL799S_LN_786L_1_P
	BCHA	W030_NTL_TAU_MWHR
	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_941l_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

Revision History

Posting Date	Description of Changes
2017-06-15	Revisions to Table 1
2016-09-28	Revisions to Table 2
2016-07-01	Initial release