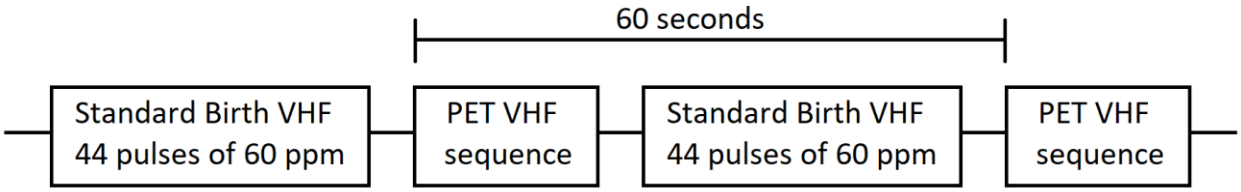
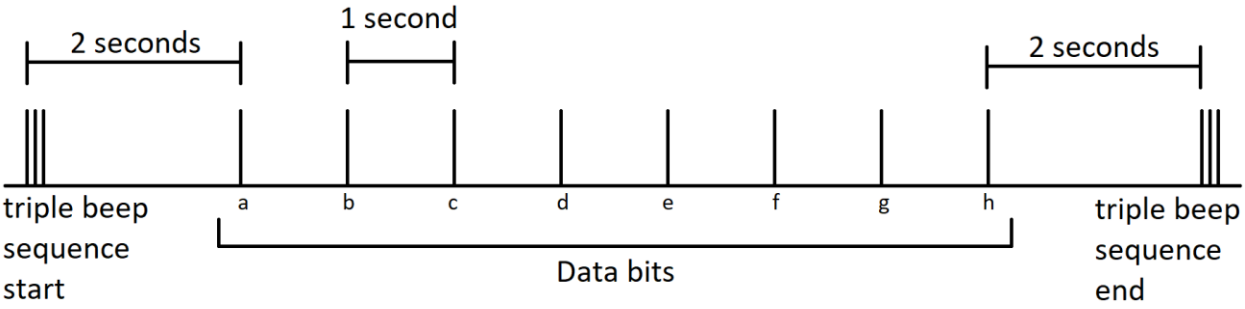
Neolink VIT PET Decoding Worksheet

The Neolink VIT emits an optional precise event transmitter (PET) VHF sequence to mark the occurrence of a temperature related birth alarm. This option may be enabled during serial number/temperature threshold programming. The PET sequence occurs every minute after about 45 seconds of the normal birth alarm VHF (single beep pattern at 60 ppm). See figure below for details.



The specification for the PET VHF sequence pattern is as follows:



Data bits indicate how many quarter hours (15 mins blocks) have elapsed since a birth due to temperature has occurred. Data bit ‘a’ is the first data beep emitted while data bit ‘h’ is the last data bit emitted. Data bits may either be a single beep or a double beep. When a data bit is a double beep, the contribution to the number of quarter hours is defined by the following:

	Data bit							
	a	b	c	d	e	f	g	h
double beep contribution (1/4 hours)	+128	+64	+32	+16	+8	+4	+2	+1

For example, if only data bits ‘b’ and ‘c’ are double beeps, then birth event occurred 64 + 32 + = 96 quarter hours (or 24 whole hours) ago.

Neolink VIT PET sequence calculation tables

	Data bit							
	a	b	c	d	e	f	g	h
double beep detected?	+128	+064	+032	+016	+008	+004	+002	+001
Sum								

Circle if double beep detected during bit and add to sum

	Data bit							
	a	b	c	d	e	f	g	h
double beep detected?	+128	+064	+032	+016	+008	+004	+002	+001
Sum								

Circle if double beep detected during bit and add to sum

	Data bit							
	a	b	c	d	e	f	g	h
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