4	3	2	1

	REVISIONS		
LTR.	DESCRIPTION	DATE	APPR.
A	RELEASED PER ECO E15561 AS V1.00	9/21/10	MKR
B	RELEASED PER ECO E16661AS V1.10	9/23/10	MKR
C	RELEASED PER ECO E18417	10/6/11	MKR
D	RELEASED PER ECO E19753	8/2/12	NLP
E	REVISED PER ECO E21149 VERSION 1.21.4	3/5/13	NLP
F	REVISED PER ECO E22326	10/23/13	JDG3

FILE NAME	SIZE
P271V0100.hex	109,653 Bytes
P271V0110.hex	109,097 Bytes
P271V0112.hex	109,203 Bytes
P271V0120_23.hex	126,930 Bytes
P271V0121-4.hex	131,942 Bytes
P271V123-15.hex	132,335 Bytes

RAVEN INDUSTRIES, INC
SIOUX FALLS, SOUTH DAKOTA

TITLE
SOFTWARE SPECIFICATIONS, SIDEKICK PRO

CODE IDENT. NO.	SIZE	DRAWING NUMBER
14979	A	077-0171-271

DO NOT SCALE DRAWING	DRAWN	GRG	9/02/10	SCALE	NA	SHEET 1 OF 2

4	3	2	1

FORM DF05005, SOFTWARE RELEASE NOTES, REVISION F, 6/30/09

RELEASE NOTES:

Version: 1.23
1. Implemented Pump Rinse capability.

Version: 1.21
1. Implemented CE hardware into the firmware.
2. Resolved a false motor power alarm.

Version: 1.20
1. Pump type (low volume/high volume) is now selected during initial product calibration.
2. Low pressure alarm and high pressure alarm can now be disabled through the console.
3. Conditions for priming and calibration have been reduced to:
   a. Pump is in the OFF state.
   b. Injection Pressure is <50PSI
   c. Suction Pressure is <11.5"Hg
4. Fixed addressing conflict with new and old CAN Injection nodes on the CAN bus.
5. Fixed problem with a run-time change of the meter cal causing the node to run off Rate until master switch is toggled.
6. Fixed issue of node not responding to CAN switch box application mode commands.
7. Added an alarm to detect if a pressure transducer is disconnected.
8. Added 16 section support.
9. Added support for 32 bit area totals.
10. Node automatically swaps on power cycle between communication with Raven CAN field computer and a VTechnik CAN field computer.
11. Added support for new program version scheme (Major, Minor, Build).
12. Injection Node now detects if product 1 is a single product node for NH3 application, before it detects a low pressure error condition.
13. Added additional delay for receiving heart beat and boom status messages before the Injection node goes offline.
14. Added CAN message to support PWM display in the normal product application screen location.

Version: 1.12
1. Fixed problem with Watchdog reset.

Version: 1.10
1. Fixed bug in flow error detection code not sending out an error condition to the console.
2. Modified the flow error detection scheme to look for a much higher resolution of encoder pulses (512-High Volume, 788-Low Volume) per one flow switch pulse.
3. Changed the default flow to encoder ratio cal value to 8.
4. Changed the required number of metal object swipes on an address cal from 2 to 1.

Version: 1.00
1. Manufacturing Initial Release

CODE IDENT. NO.	SIZE	DRAWING NUMBER
14979	A	077-0171-271
SCALE	NA	SHEET 2 OF 2