

Technical Writer



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---- Contact Information ----

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Permission to use complete documents or portions and samples of documents that I have produced has been obtained in writing from all companies.

Revision History

Rev.	Date	Description
initial	2019-11-02	Initial release
1.0	2019-11-21	Update contents, add additional example documents
1.1	2022-02-15	Address update
1.2	2022-04-01	Misc updates (added AutoCAD,)
1.3	2023-03-11	Misc. Updates (add new sections – Signs and Labels, Schematics and P&IDs)
1.4	2025-12-01	Misc updates (address change, updated skills)



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1. My Acquired Skills

General Highlights

- Represented (acceptance commissioning and warranty) a large U.S. based oilfield equipment manufacturer in India, Russia, Ukraine and Uzbekistan.
- Owned and operated a manufacturing business (custom control panel assembly and installation) in Alberta.
- Managed a \$2 million dollar project to integrate a controls system onto four different types of high pressure pumping units.

Documentation Specific Highlights

- Set up and managed a document control system, complete with document review and approval process.
- Set up structure and built content (modules) for an employee training system.
- Set up structure and built content (SOPs, process flow charts) for a manufacturing operation.
- Created and edited SOPs, Work Instructions, Forms, Appendices, etc.). Managed documents (review and approval workflows) for a cannabis company.
- Oversaw the creation of part numbers and the validation, input & revision of BOMs for an MRP system.

Programs

- Microsoft Office (Word, Excel, Visio, Power Point), Libre Office (Write, Calc, Draw)
- Adobe Acrobat
- Veeva Vault (document control software)
- Corel X7 Suite, Gimp
- AutoCAD (basic level), DraftSight (basic level)
- OrCAD, Solidworks Composer (basic level)
- HTML (basic level)
- PLC programming (basic level)

Languages

- Conversant: Portuguese
- Basic: Spanish, Italian, Russian and Dutch

Attributes

- Reliable. Results driven.
- Quality and consistency oriented. Strict adherence to company and industry standards & accepted practices.
- Able to work independently or in a team environment.
- Versatile. Able to work full time, part time or on a project basis.



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2. Documents Created

- Operations and Maintenance Manuals comprehensive documents containing safety, equipment description & operation, maintenance and troubleshooting sections.
- Standard Operating Procedures (SOPs)
 - **Infrastructure** administration, safety, engineering, production, purchasing, inventory control, QA, documentation and shipping & receiving.
 - **Equipment Manufacturing –** work orders, work instructions for assembly, configuration, modification & repair, QC and packing & shipping instructions.
 - **Grow Operations** security, employee and visitor vetting, growing, pest & disease control, harvesting, maintenance and equipment cleaning & sterilizing.
- Summaries one page system operating reference sheets (common commands, GUI & connection "maps", etc...) and equipment maintenance sheets.
- Work Instructions electronic upgrade, programming, calibration and QC procedures complete with the system to validate, standardize, approve and organize these for easy access and distribution.
- Tech Advises / Technical Bulletins advisories for alerting personnel of various "situations" complete with the system to validate, standardize, approve and organize these for easy access and distribution
- Training Documentation tailored, modular based topics (general knowledge, specific equipment operation, field maintenance & troubleshooting, etc...) complete with knowledge quizzes.
- Pocket Technical Reference company specific and general electronics info in a pocket size book (over 400 copies were printed of one version that I created).
- Tally Books customized pocket sized notebooks with industry standard information and lined note pages.
- Sales Brochures equipment specific complete with specifications.
- Labels pipe labels, equipment labels, room signs,
- Illustrations for the Above Products I've created and/or modified: photos, general assemblies, concept drawings, GUI "snips", flow charts, troubleshooting & repair charts and tables & block diagrams.



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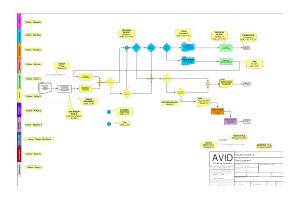
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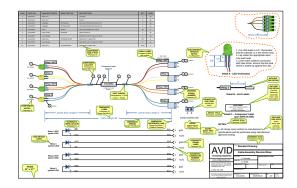
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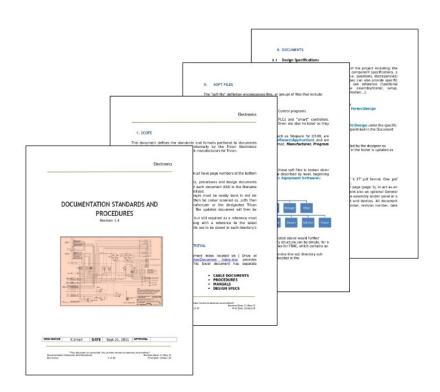
3. Samples

3.1 Document Standards





Standards detailing colours, fonts and sizes maintain consistency throughout all documentation.



Detailed information regarding all aspects of documentation



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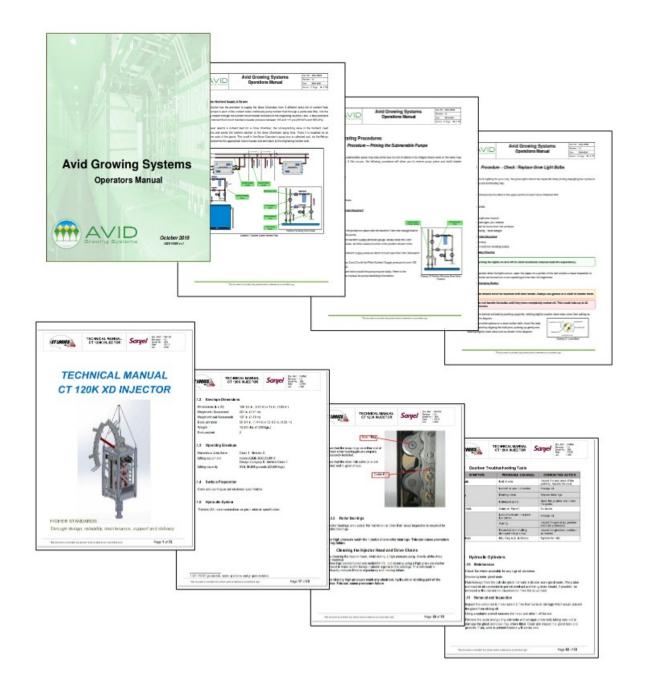
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3.2 Manuals

This portfolio was created in a manual format to demonstrate my layout style. Samples of other manuals are below.





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3.3 Standard Operating Practices (SOPs)

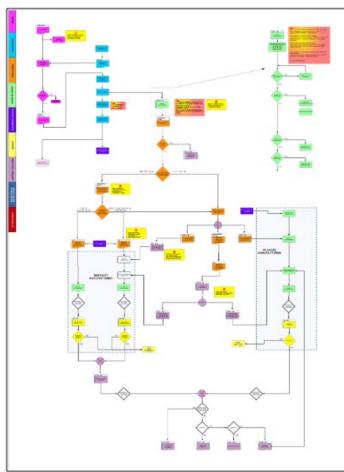


Illustration 1: Manufacturing Flowchart

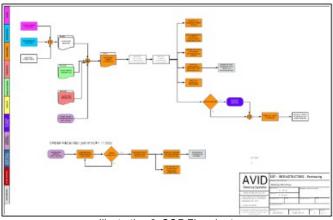
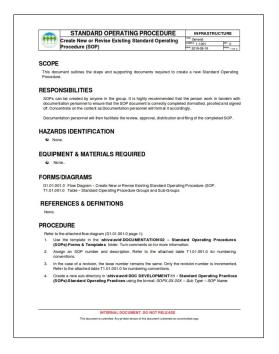
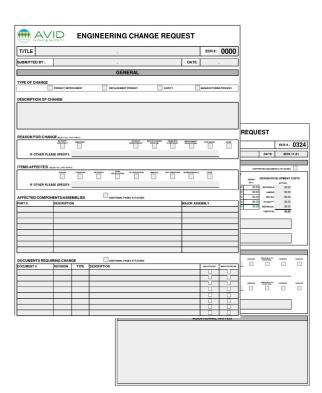


Illustration 2: SOP Flowchart







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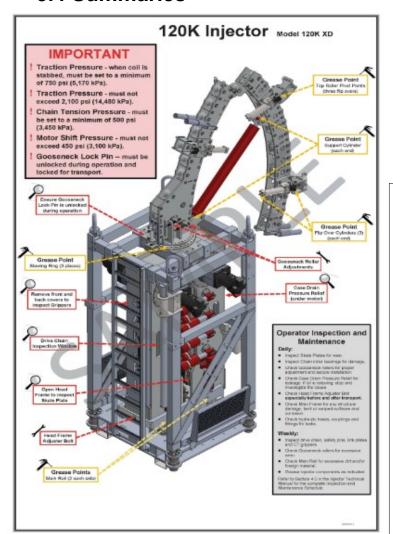
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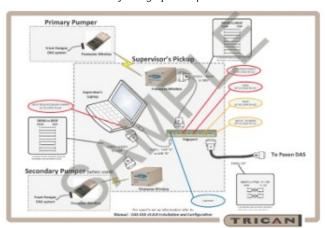
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3.4 Summaries



Note: The injector graphic is "from others"



TRICAN

Water Brake Operation

For Frac Pumpers having a "ganged" Water Brake valve handle (currently units 620120 and above, except for 620138 through 620141)

- 1. Engage the tractor hydraulics.
- 2. Set the tractor engine to approx 1250 RPMs.
- 3. Turn on the trailer battery disconnect switches. This provides power to the Water Brake tachometer and hydraulic cooling fans as well as the local control panel.
- 4. Ensure that the Water Brake valve handle is in the Water Jacket position (down). Engage the Water Brake by actuating the Water Brake hydraulic control lever. The Water Brake should then operate at approx. 2500 RPMs (use the tachometer on the Water Brake control enclosure). DO NOT EXCEED 2550 RPMs.
- 5. Monitor the Water Jacket temperature on the Local Control panel display. This will either be an operator screen (HMI) or PRAN display.
- screen (HMI) or PRAN display.

 6. When the Water Jacket temperature reaches 90°F, move the Water Brake valve handle to the LTA position (up).

 7. When the LTA or latercooler temperature reaches 90°F, move the Water Brake valve handle to the Water Jacket position (down).
- Disengage the Water Brake hydraulic control lever.
- 9. The engine is ready to be started.





The hydraulic cooling fans will start automatically as the hydraulic oil heats up. The Fan Override switch, mounted on the side of the Water Brake control enclosure can be used to manually run these fans if required.

In the event of a coolant system overpressure, this system automatically relieves glycol back to the radiator reservoir.



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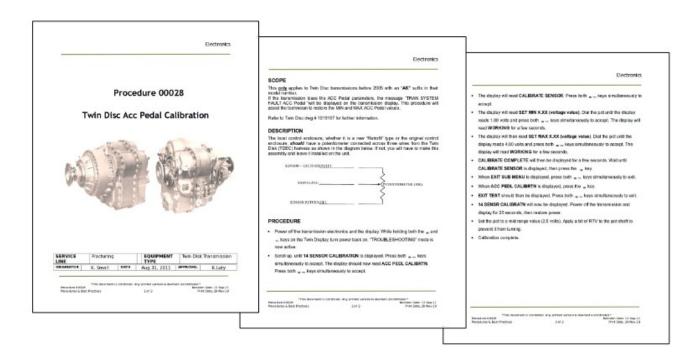
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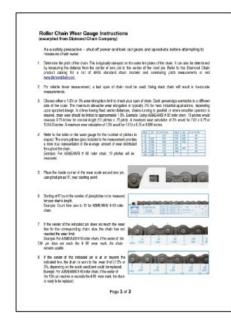
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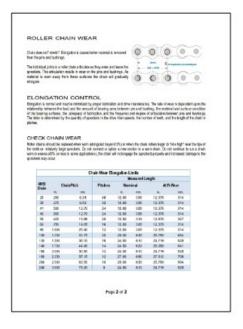
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3.5 Work Instructions









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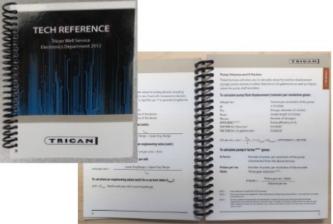
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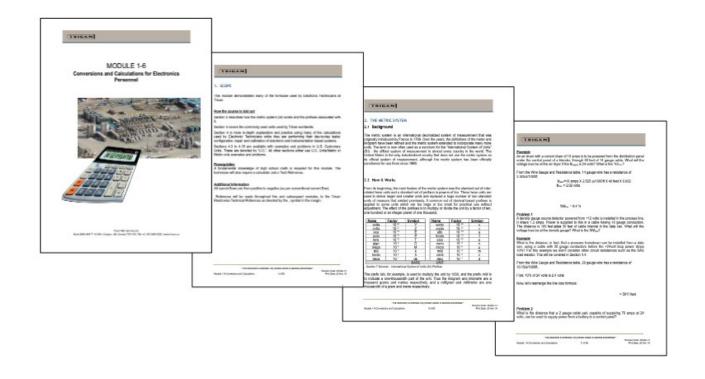
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3.6 Tally and Reference Booklets





3.7 Training Documents





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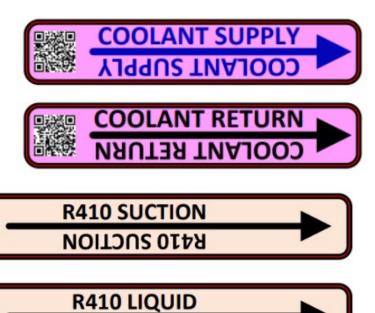
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3.8 Signs and Labels





UH-005

RTU-009

R410 LIQUID





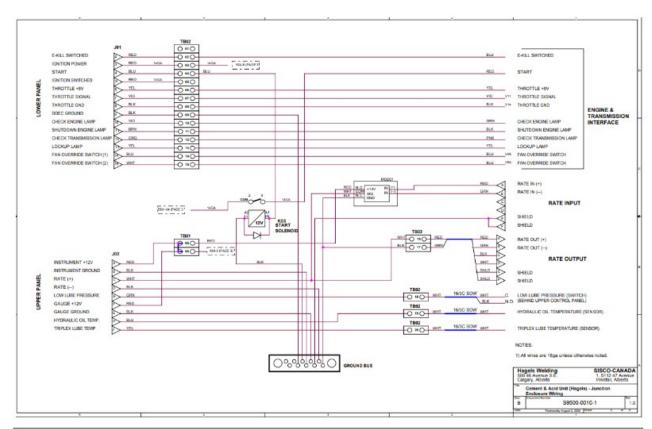


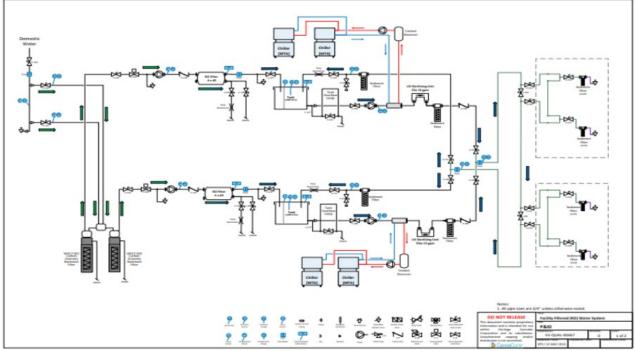
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3.9 Schematics and P&IDs







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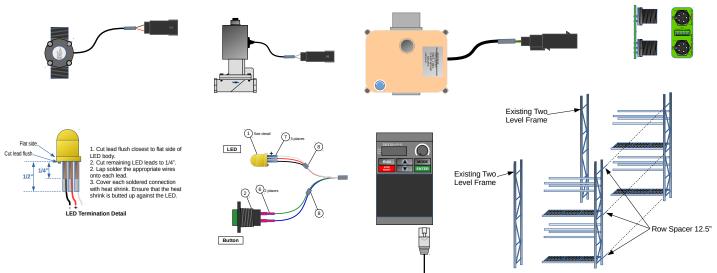
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4. Illustrations

4.1 Component Drawings



4.2 Modified Photos



Illustration 3: Original Photo



Illustration 4: Modified Photo. Clutter is removed and gooseneck has been restored (left side)



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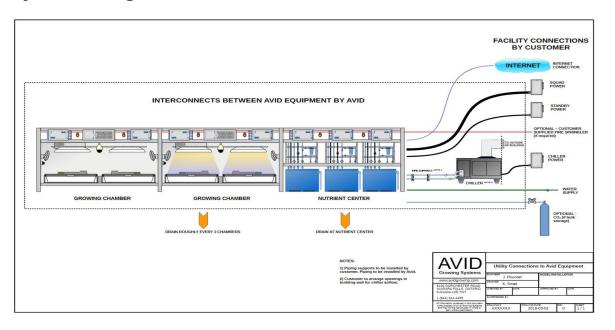
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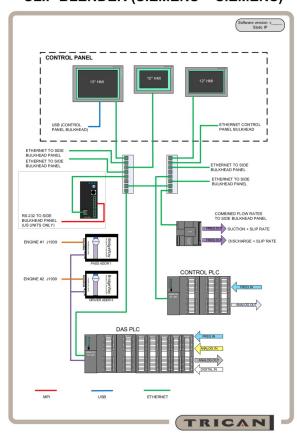
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4.3 System Diagrams



SLIP BLENDER (SIEMENS + SIEMENS)





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5. Appendix

5.1 Glossary

Accuracy - The closeness of an indication or reading of a measurement device to the actual value of the quantity being measured. This is usually expressed as ± percent of full-scale output or reading.

AC - Alternating current; An electric current that reverses its direction at regularly recurring intervals.

Ambient Conditions - The conditions around the transducer (pressure, temperature, represent values. etc.).

Ampere (amp) - A unit used to define the rate of flow of electricity (current) in a circuit. **Amplifier -** A device which draws power from a source other than the input signal and which produces as an output an enlarged reproduction of the essential features of its input.

Analog - A quantity that can vary continuously through a potential infinite number of values, for example, the time swept out by the hands of a clock or the output of a thermocouple.

Baud - A unit of data transmission speed equal to the number of bits (or signal events) per second; 300 baud = 300 bits per second. **Binary -** Refers to base 2 numbering system, in which the only allowable digits are 0 and 1. Bit - Acronym for binary digit. The smallest unit of computer information, it is either a binary 0 or 1.

Byte - The representation of a character in binary. Eight bits.

Calibration - The process of adjusting an instrument or compiling a deviation chart so that its reading can be correlated to the actual associated with a computing system, as value being measured.

CPS - Cycles per second; the rate or number of periodic events in one second, expressed in Hertz (Hz).

CSA - Canadian Standards Association. **Current -** The flow of electrons in an electric circuit. The unit of measurement is the Ampere.

DC - Direct current; An electric current flowing in one direction only and substantially constant in value.

Decimal - Refers to a base ten number system using the characters 0 through 9 to

Density - Mass per unit of volume of a substance. i.e. - grams/cm³ or pounds/ft³. DIN (Deutsche Industrial Norm) - A set of

German standards recognized throughout the world.

Error - The difference between the value indicated by the transducer and the true value of the parameter being sensed. It is usually expressed in percent of full scale output.

Firmware - Programs stored in PROMs, EPROMs or flash memory.

Flow Rate - Actual speed or velocity of fluid movement.

FM Approved - An instrument that meets a specific set of specifications established by Factory Mutual Research Corporation.

Frequency - The number of cycles over a specified time period over which an event occurs. The reciprocal is called the period.

Ground - 1. The electrical neutral line having the same potential as the surrounding earth.

2. The negative side of DC power supply. 3. Reference point for an electrical system.

Hardware - The electrical, mechanical and electromechanical equipment and parts opposed to its firmware or software.

Head Pressure - Pressure in terms of the height of fluid and the specific gravity of the fluid.



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power of hydrogen

pounds per square inch

parts per million

Personal Protective Equipment

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5.2 Abbreviations

6	foot / feet	kg.	kilogram
"	inch / inches	kPa	kilo Pascals
AC	Alternating Current	m	metre
atm.	atmosphere	m^2	square metre

CCW counter clock-wise m^3 cubic metre Carbon Dioxide Mbps Mega bits per second CO_2

Canadian Standards Association **MERV** Minimum Efficiency Reporting Value CSA

Canadian Electric Code **MSDS** Material Safety Data Sheet CEC

Ceramic Metal Halide **OHSA** Occupational Health and Safety Act CMH CW clock-wise

рH DC **Direct Current PPE** degree deg. ppm DI de-ionizing psi.

drawing dwg. pounds per square inch (atmospheric) psia. electrical conductivity EC pounds per square inch (differential) psid.

EOL End of Line pounds per square inch (gauge) psig. **ESA**

Employment Standards Act PTZ Pan Tilt Zoom ft. foot / feet

RGB red green blue ft² square foot / square feet reverse osmosis RO ft³ cubic foot / cubic feet **TDS** total dissolved solids

gram unit of measure uom Graphic User Interface GUI US **United States**

HPS High Pressure Sodium United States of America USA

Hz Hertz US gallon US gal. inch / inches in. Ultra Violet UV I. L litre volts

Light Emitting Ceramic **LEC** Variable Frequency Drive **VFD**

Light Emitting Diode **LED** Virtual Private Network VPN pound lb.



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5.3 Attachments

Dwg No.	Description	Pages
	Brochure – 120K Injector (separate attachment)	4