

Below are the activities and processes I take part in, many of which are unique to my situation as the only Spartan control system tech in Southern Alberta:

- Power and Grounding Audits and testing, with reports, for manufacturing sites
- Power and Grounding Audits and testing, with reports, for compressor sites
- Consultant to Projects group re grounding
- Telephone consulting to customers and non-customers re grounding
- Site verification seminars.
- I work closely with Dave Brown in Austin regarding grounding issues and serve as the middleman between Spartan and Austin.
- Investigations and reports on anomalies and issues, eg
  - Power shut-down test on DeltaV, for Bill E.
  - Ferrule application test for Suncor/Spartech
  - DeltaV carrier cable testing, assisting Emerson in determining manufacturing defects in cables.
  - Hart noise-testing
  - Corrosion/contamination testing using lab microscope
  - Device Net issues at Suncor Firebag – defective DN distribution blocks
  - Device Net issues at Ferus Strathmore – invisible wiring issues
  - Husky Ram River Hart-wiring issues.
  - Nexen Ethernet switch issue (Black December 2002)
- Maintain CSSL as parts and equipment source for Projects and Spartech.
- Supply and install Provox equipment when required by HEIC, for their many world projects.
- Maintain DeltaV hot spares, cables, and demo equipment.
- SI key maintenance and tracking
- Burn CDs for Project guys: new DV software, patches, hot fixes
- Maintain an FTP server so I can make patches available while at home on vacation.
- Ad hoc cabinet inspections for Projects, usually for P&G
- Ad hoc DeltaV installations for EPCs such as DPH, Colt, etc
- Ad hoc FAT testing for project group
- Manage 3<sup>rd</sup> party sales of used Provox equipment

- Repairs and warranty replacements on new projects and/or customer-base equipment.
- DeltaV upgrades during project stage, or at site during and after commissioning.
- Plant commissioning (installation, verification, P&G checks, problem-solving)
- Phone and VPN support as required to customers, EPCs, and 3<sup>rd</sup> parties.
- 7-24 support for Provox systems. Daily support for DeltaV systems.
- Assist sales with parts procurement, pricing, quotes, etc.
- I'm on the Spartan safety committee
- Maintenance and service of the following sites:

Rogers Sugar	
Provident Energy	¼ visits
Ferus Strathmore	
Ferus Joffre	
NAL Joffre	
Agrium Joffre	
Husky Ram River	¼ visits
IOL Quirk Creek	
Bearspaw WT Plant	¼ visits
Glenmore WT Plant	¼ visits
Devon Coleman	
Nexen Balzac	¼ visits

Quarterly visits include:

- Database clean
- Hard drive cleanup and defragmentation. Documentation of space used.
- Boot time defrag of hard disk partitions, MFT, and page file
- DeltaV diagnostics and resolution of all errors on all nodes
- Data communication status, checking of event log and diagnostics
- Reports to customers about anomalies, possible improvements, upgrades
- Power supply voltage and current checks and tweaks
- Database export and graphics backup
- Installation of DeltaV hot fixes and MS updates
- Download controller cold restart memory
- Environmental checks: temperature, humidity, dust
- Check of auto backup systems
- DeltaV Registration updates
- Determination of general health of entire system

I DO NOT do configuration in Provox or DeltaV because the Project guys have always done this work while I did hardware tasks. Thus I have not obtained the skill level required to do justice to configuration tasks.