| 1 | Q. | Re: 2013 Capital Projects 200,000 and Over but less than 500,000: Explanations, |
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| 2 | | pages D-78 through D-83 Replace MicroSCADA Computers: |
| 3 | | Does Hydro have systems in the Legacy Phase currently? If so, how long have these |
| 4 | | systems been in the Legacy Phase and please outline any maintenance and ongoing |
| 5 | | issues regarding these systems. |
| 6 | | |
| 7 | A. | The system at Granite Canal is the only MicroScada system in service at Hydro |
| 8 | | facilities. It is an ABB Model SYS500, Version 8.4.4 and it entered the legacy phase in |
| 9 | | 2011. |
| 10 | | |
| 11 | | In 2010 the MicroScada required a reboot because the system locked up when |
| 12 | | automatically logged files consumed hard disk space used for normal operation. |
| 13 | | Maintenance has to be done quarterly to clean up the logged files to prevent it |
| 14 | | from locking up. |
| 15 | | |
| 16 | | In 2012 during testing on the turbine which requires the MicroScada for monitoring |
| 17 | | vibration and flow levels, the MicroScada locked up three times during the five hour |
| 18 | | test period which caused delays in the testing. |
| 19 | | |
| 20 | | A delay of up to two minutes has occurred on the MicroScada system in receiving |
| 21 | | status feedback from field devices. The system has to be rebooted to return to |
| 22 | | normal operation. |
| 23 | | |
| 24 | | During the scheduled outage in 2012, data logic files could not be extracted from |
| 25 | | the MicroScada system using external memory devices (USB), requiring a site visit |
| 26 | | to copy the required files. |