

# Optical IT's Issues and Baseline Update

MSP Meeting  
May 7, 2009



- IESO performed Level 3 audit of metering installation utilizing optical IT's in Dec. 08.
  - One significant finding was identified:
    - The 'Maintenance Required' and 'Data Invalid' LED alarms for the Optical Voltage and Current Sensor were active at time of the field audit.
  - Corresponding action includes:
    - MSP to provide details regarding the alarm status of the Optical Voltage and Current Sensor. Response to address impact on measurement accuracy and must be attested by the manufacturer (NXTPhase). MSP to also provide routine maintenance procedures for ongoing monitoring and reporting of the alarm status of the Optical IT's.

- **January 29, 2009 Press Release – Areva T&D acquires NXTPhase Inc.**
- **What this meant.**
  - Asset purchase including intellectual property (not whole company)
    - Includes Phoenix AZ operation (optical CT's) but not BC operation (optical VT's)
  - AREVA does not have ability to warranty NXVCT systems as VT production facility and staff were not acquired
  - Will continue with limited product support by phone and site service support and factory repair of electronics available
  - no support to repair VT column.

- IESO needs to address the maintenance and monitoring requirements of the electronic components which form part of the metering installation.
- Specifically, we need to ensure that a mechanism for real time monitoring of alarm statuses and events of the electronic components is in place to ensure that accuracy and integrity of the installation is not compromised.

## Update Wholesale Revenue Metering Standard - Hardware

- **NEW Section 6.10.5 – Monitoring Requirements – Electronic Instrument Transformers**

Where the installation has electronic instrument transformers, a mechanism for real-time monitoring of alarm statuses and events associated with optical sensors, transmitting systems and secondary converters shall be in place and maintained. Within 24 hours of any metering alarm affecting the normal metering operation, the IESO shall be notified of the alarm event and the consequences to the revenue metering. An alarm event log shall be maintained for IESO audit purposes. The installation shall be subject to IESO approval.

- ***Effective date: Baseline 21.1 June 3<sup>rd</sup>, 2009***