

MV-90 xi

Implementation of Direct Phone Lines

Revenue Metering Standing Committee
October 2nd, 2008



- IESO used a PBX telephone system to interrogate meters
- Phone numbers in the Master File had to begin with “9” in order to obtain a line to dial out
- Experienced a number of issues when communicating to meters through the PBX
 - 911 calls
 - bogus calls
 - cluster failures
- May 2008 - the decision was made to move to direct lines

- **CSCC Configuration**
 - 64 direct lines
 - 4 MV-COMM stations (Production System)
 - Sharing of direct lines during business hours for MV90 xi Test System (3 MV-COMM stations) and Settlement Production Staff
- **BOC Configuration**
 - 48 direct lines
 - 4 MV-COMM stations

- Did not achieve expected results (significantly worse than when using PBX lines)
- Longer interrogation times in some cases
- Could not download data from approximately 270 meters
 - Locations vary across the province
 - Not meter type or configuration specific
 - Code 27 errors – Loss of Carrier
- This had a big impact on system performance
 - Over 6400 call attempts to collect data from 3300 meters

- IESO suspended communication MTR's while troubleshooting issues
- MV-90 xi operations failed over to BOC (using BOC direct lines)
 - Operations were successful
 - Approximately 4300 call attempts to collect data from 3300 meters using 4 MVComms with 48 ports
 - Nightly interrogations completed by 6:00am
 - Other processes (Validations, MTR's, etc) back on schedule

- Bell is troubleshooting the direct line issues at CSCC
- Suspect that it is related to the TELCO infrastructure
 - BOC has ~100m of copper TELCO lines before switching to fiber optic lines
 - CSCC has over 5 km of copper TELCO lines before switching to fiber optic lines
- IESO awaiting Bell's recommendations. Until then, MV-90 xi will continue to operate from BOC

