



CONTINGENCY PLAN Municipality of Machin

Machin 09-10

Vermilion Bay Water Treatment & Distribution Systems

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Problem: **Hydro Power Failure**

Contact Info: Overall Responsible Operator (ORO)
Operator-In-Charge (OIC)

Procedures:

1. Auxiliary Power Standby Unit (Gen Set) is available. The standby power unit should automatically start immediately after the normal power source is interrupted. This unit will provide all necessary power to operate the plant system including all related control equipment and plant requirements.
2. Check generator operational instrumentation.
3. If standby power unit fails, refer to contingency for Standby Power Failure.
4. Assess power loss problem. Check all breakers, switches, and all outside feed cables (for phase loss or obvious damage).
5. If problem originates with utility power supply, call Hydro One and inform them of the outage. Ask for projected time until service is restored.
6. If normal power is anticipated to be off for a long period of time (i.e. >24 hours), notify the Municipality of Machin and, if necessary, consider imposing water restrictions.
7. Ensure all plant equipment is fully functional.
8. Frequent supervision will be required until normal power supply is restored. Check generator fuel supply and refill as necessary. Ensure sufficient supply is available for worst case scenarios. Keep in mind fuel availability due to regular business hours, weekends, holidays, etc.
9. Notify the Vermilion Bay Fire Chief any time limited water supply or loss of pressure is expected.

10. When power is restored, **the standby unit will not automatically shut down**. You must re-set the system by pulling the knife fuse FU3 in the SCADA PLC Cabinet, and while it is out, turn the Main Disconnect off and then back on (it should click into position). Then you must reinsert FU3 back into the fuse holder and the unit should automatically shut off.

11. You will be able to see the timer counting down on the generator controller for the shutdown. Verify that the unit has shutdown, and that the plant is operating on normal power. Verify that all plant equipment is fully functional.