



September 30, 2021

Rideau St. Lawrence Distribution  
985 Industrial Rd.  
Prescott, ON  
K0E 1T0

**RE: Morrisburg MS2 Condition Assessment Report**

The Morrisburg MS2 overall station assessment's driving factor is the transformer and the switchgear condition paired with the redundancy limitations.

The transformer insulating fluid analysis, specifically the dissolved gas analysis (DGA), identified levels of Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>) and Total Dissolved Combustible Gases that are indicative of winding paper insulation stress due to overheating.

In the event of an MS2 outage, it cannot be fully backed up by MS1 as there are feeder conductor limitations. This may lead to prolonged outages which present a high-risk factor for this station.

Rajeel Shaikh, P.Eng.  
Regional Engineering Manager, Eastern Canada  
Spark Power High Voltage Services Inc.