

Aerial Devices & Live Line Tools





2,400 kV lightning impulse generator performing switching.

Aerial Devices

Aerial device testing is required for qualification and re-certification to ensure the safety of equipment operators.

Manitoba Hydro International Ltd. offers electrical tests for aerial device qualification and periodic maintenance purposes, including:

- Switching impulse;
- Applied double rating 50/60 Hz voltage (AC);
- Applied double rated direct voltage (HVDC applications).

Standards

We offer aerial device tests compliant with the following standards:

- CSA C225-10;
- IEC 61057;
- ANSI/SIA A92.2;
- Hydraulic fluid dielectric strength verification according to ASTM D1816-12.

Live Line Tools

Testing to ensure live line tools are in proper working condition is imperative for worker and community safety. We offer the following electrical tests for live line working tools:

- Switching impulse withstand;
- Applied AC 50/60 Hz and direct voltage withstand;
- Determination of critical flashover voltage under AC, DC, and switching impulse voltage;
- Material surface hydrophobicity diagnosis.

Standards

We offer wet and dry testing of live line working tools compliant with the following standards:

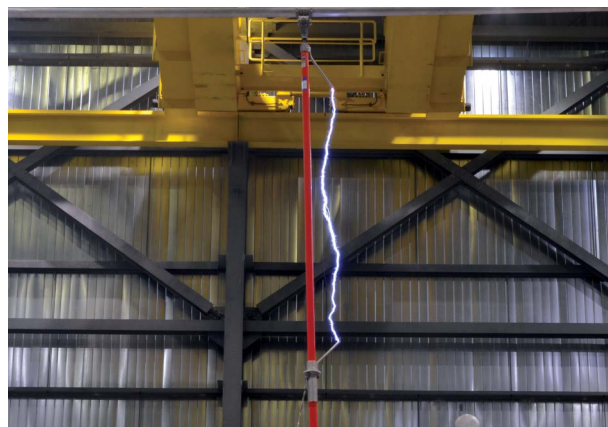
- IEEE 516;
- IEC 60060-1.

Testing Capabilities for Aerial Devices and Live Line Tools

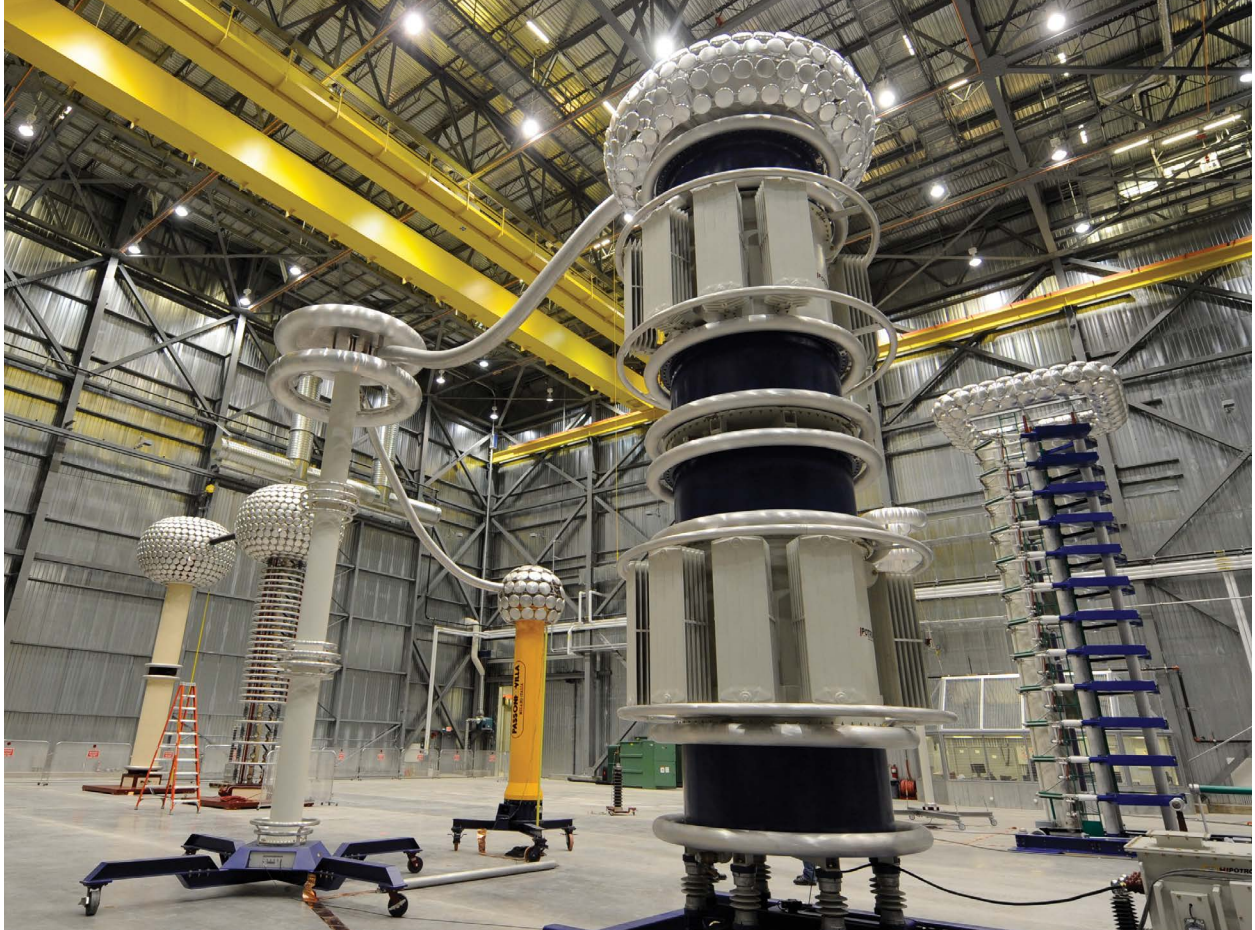
Capabilities	Voltage Rating
Direct Voltage with Polarity Reversal (DC)	$\pm 1,200$ kV
50/60 Hz Voltage (AC)	800 kV
Switching Impulse	$\pm 1,300$ kV
Lightning Impulse	$\pm 2,400$ kV



800 kV series resonant test system performing an AC withstand test on a live line working tool.



Switching impulse tests performed on a protective gap tool rated for 500 kV live line work.



High Voltage Test Services

In partnership with Manitoba Hydro's High Voltage Test Facility, we provide commercial testing services for a wide variety of high voltage electrical equipment. All testing is performed at Manitoba Hydro's leading-edge facility, where services are tailored to meet each customer's specialized needs in accordance with IEEE, ANSI, IEC, and CSA standards.

Contact us today to discuss your testing requirements:

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Available in accessible formats upon request.

