



KINECTRICS

Case Study

Alstom Power Converter Testing of Hesop™



PROJECT OBJECTIVE

Kinectrics was contracted to test power converter equipment as part of Alstom's state-of-the-art reversible power-supply substation product line for rail transit systems, known as Hesop™. This is a new product, developed to dramatically improve energy efficiency and support and advance green technology. The test specification was based on compliance to EN50327, EN50328, and EN50329.

**Project Title: Alstom
Power Converter
Testing of Hesop™**

Year: 2018

Customer Name: Alstom

Service: GRIDSIM Testing

Location: Toronto, Canada

SCOPE OF WORK

Kinectrics provided the client with a broad range of expert technical services to complete testing of the transport converter. In addition to the equipment and facilities required, project deliverables included:

- A suitable test facility for 60 Hz testing
- Supply capacity over 5MVA at medium and low-voltage testing over 5 MVA of low voltage DC
- Protection, controls, and test automation
- State-of-the-art instrumentation and data acquisition
- A detailed test plan
- A detailed test report





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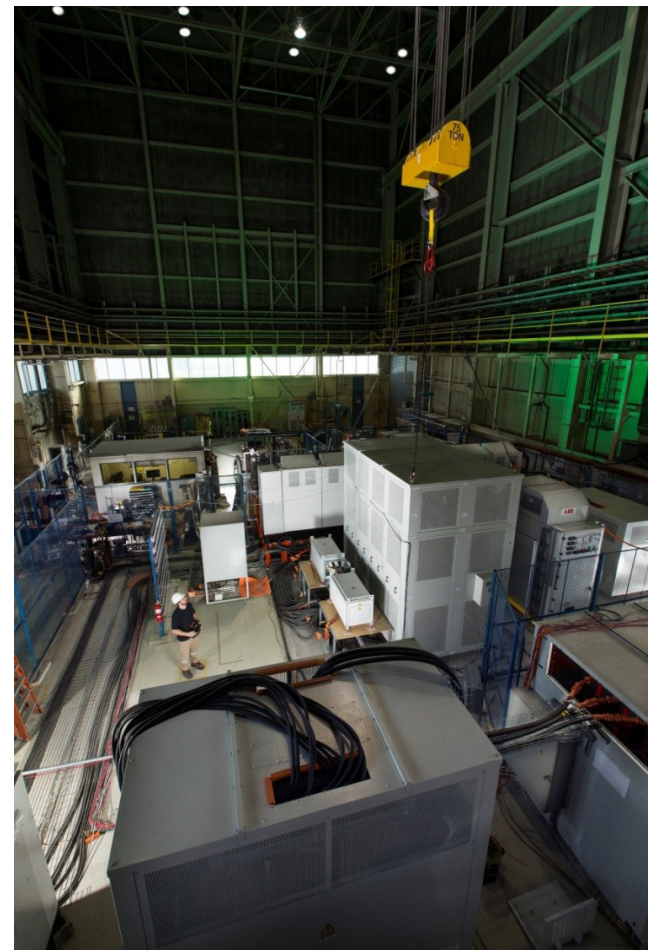
The test plan, equipment specifications and layout, procedures, and schedule were designed and planned by Kinectrics to meet all client specifications. Most of the testing was performed at Kinectrics head office site in Toronto, Canada and the project testing scope included:

- Temperature Rise Tests
- Output Characteristics Tests
- Acoustic Noise Tests
- Short Circuit Tests
- Safety Requirement Tests
- Electromagnetic Compatibility (EMC) Tests

RESULTS

The test facility was designed and constructed in less than 6 months. The testing was performed to the client's satisfaction and all test results complied with the original specifications.

The client received highly-detailed documentation for Kinectrics' work on the project, including records of testing and all measurements / data recorded during testing of the transport converter. Alstom has since awarded Kinectrics subsequent testing programs for substation gear at higher power levels.



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