

ELECTRICAL TESTING GROUP



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MV & HV CABLE TESTING TECHNOLOGY

ON SITE CABLE COMMISSIONING

UNDERGROUND FAULT LOCATION

NEWS LETTER MARCH 2011

INDUCOR INGENIERIA PERFORMS THE NEW 220KV CABLE COMMISSIONING AND DIAGNOSIS TESTING OF PUERTO NUEVO – COLEGIALES AND MALAVER EDENOR SUBSTATIONS

Buenos Aires - March 2011:

Comprising about 14 Km of 1200mm² single-core XLPE cable, with extruded lead sheath, and produced by PRYSMIAN Argentina in accordance with IEC62067 Standards, the new Electrodut, which belongs to EDENOR S.A. known as terna 060, has passed all the acceptance testing for its commissioning.

The complete series of testing which EDENOR has entrusted to INDUCOR INGENIERIA, involved, on a first stage, taking the parameters of the circuit map, which has 23 joints, and a cross-bonding configuration in three sequences.

Phase Impedance Determination.
Homopolar Impedance Determination.
Capacitive Suceptance Measurement per Phase.
Cross-Bonding System Performance Verification.

On a second stage, the Applied Voltage testing and Initial state Diagnosis were carried out, grouped in the results of:

Dissipation Factor.
Partial Discharge Mapping and
Differential Reflectometry.
External Cover Integrity.

The purpose of the required tests fits with the standardized series of the "Condition Assessment Testing", with non-destructive nature, which its objective is to determine or measure the characteristics of the insulation and the initial reliability grade.

The latest generation mobile technology used by INDUCOR INGENIERIA with VLF techniques, designed to test the HV underground cable circuit aptitude, has proved once again, the value of getting into the current market.



EDENOR TERNAS 220 KV S.E. PUERTO // COLEGIALES // MALAVER



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