

LABORATORIO CENTRAL OFICIAL DE ELECTROTECNIA

Informe N° 2020023F0136-A

Test date: April 21st, 2020.

1 TESTED MATERIAL:

One (1) E.S.E. (Early Streamer Emission Lightning Conductor) was supplied to LCOE

By: **Pararrayos Salvador Romero, S.L.**

1.1 Marking:

- ✓ Manufacturer: Pararrayos Salvador Romero, S.L.
- ✓ Model: PDC-S
- ✓ Serial Number: s/n.

1.2 Specimen description: The specimen, according to the customer, consists of one Early Streamer Emission Lightning Conductor.

2 TYPE OF TEST

2.1 Lightning impulse current withstand test: 200 kA of 10/350 μ s waveform

- ✓ $I_{peak} = 200 \text{ kA} \pm 10 \%$
- ✓ $W/R = 10000 \cdot \text{kJ} / \pm 35\%$
- ✓ $Q = 100 \text{ C} \pm 20 \%$
- ✓ Duración < 10 ms.

3 APPLIED STANDARDS:

The test referred in section 2 has been made according to the procedure described in NFC 17-102 September 2011 Standard and UNE 21186:2011, Article C.3.4. The waveforms applied in this test have been modified to the following parameters: 200 kA and 10/350 s.