

Alert to: CONSUMERS OF BRAZILIAN ELECTRIC POWER DISTRIBUTION COMPANIES ABOUT A FACT RELEVANT TO THE SAFETY OF FAMILIES WHO HAVE DISTRIBUTION TRANSFORMERS WITH EXPULSION FUSES NEAR THE WINDOWS.

(for knowledge of **ABNT, CITY HALLS, ANEEL, LIGHT Serviços de Eletricidade**) Oct,2,2023

Firstly, watch the video and read the article (link below) where the dangers are obvious, for those who have this type of situation. If you have this type of situation, question your power utility as this proximity poses life risks to your family, proven by laboratory tests witnessed by me. The risks evidences are in the material, and I am able to demonstrate. I witnessed the dangers when I was doing transformers and fuses tests as manager of Brazilian high-power testing laboratories. The images are like showed in the video. ABNT and IEC technical standards do not cover recommended distances to residential buildings.

I asked the power utility to move the transformer about 10 meters from the facade. They reported, in written, that **“measured the distance from the transformer fuses to the facade and found that the transformer and fuse are more than 2.2 m apart, in accordance with the standards.**

- **LIGHT_RECON-MT_2023** (<https://www.light.com.br/Downloads/RECON%20-%20MT%202023.pdf>) e
- **ABNT-15688 :2012.** (Aerial electrical power distribution networks with bare conductors)

I read the documents and neither of the two deals - as they should - with safety distances for lay users (consumers in buildings). The first clearly deals with issues of electrical substations operated by personnel specialized in the dangers of high voltage. I know how to read technical standards because I coordinated the preparation of many at both IEC and ABNT

I doubt that the engineers who wrote these standards would agree to witness a short circuit test on a distribution transformer with expulsion fuses from 3 m away.

- Video: https://www.youtube.com/watch?v=JP_r4DAtgAw
- Article: <https://www.cognitor.com.br/FusesInTheWindows.pdf>



PART of RESPONSE RECEIVED FROM ANEEL, regulatory agency – Protocol 010.482.65523-06

... this Agency advises you to follow these steps:

- 1) ... talk to your distributor first. Write down and save the service protocol...;
- 2) If you do not receive a response within the stated deadline or if you disagree with the response received, contact the distributor's Ombudsman, who must provide clarifications within 15 days....
- 3) If the distributor's Ombudsman does not respond within this period or if you disagree with the response received, contact this Agency.

To ANEEL, I, Sergio Feitoza Costa, declare that I do not agree with Light answer. The video above is evidence that 2,2m is much less than the necessary distance.

This article was written by Sergio Feitoza Costa, electrical engineer, M. Sc in Power Systems.

- **Curriculum** <https://www.cognitor.com.br/Curriculum.html>
- **Things I helped to do:** <https://www.cognitor.com.br/HelpedToDo.pdf>
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