

# TYPICAL SERVICES I CAN DO

Dear all

I can assist with your project for XXXXXX your internal arc testing project for the 11kV and 33kV VCB XXXXX.

In the last 20 years I have been doing this for MV / LV switchgear manufacturers all over the World. Before I worked 25 years in high power testing laboratories doing, among others, this type of test.

To do the complex design calculations I developed a simulation software that permit to simulate the more expensive tests (internal arc, short circuit forces – short time currents and temperature rise). The tool is validated by comparison to real tests performed by my clients.

## I CAN DO TWO DIFFERENT THINGS:

- a) To do the calculations and design review for your equipment informing improvements and corrections to your design. I prepare a model of your switchgear to simulate the tests and if I see it will not pass, I suggest the modifications. I help you in the technical contacts and questions to the testing labs. You do not receive training nor the software. You will need me next time.
- b) I can do this above and also to apply a training for you . Then you will learn and also receive the software. If your team learn this will not need me in the future.

I have experience and will show examples of solutions, for example , for the depressurization flaps, hinges, doors reinforcement, etc...

## MORE INFORMATION

- A) [Here you may find an example of design review report \(sorry for LV equipment\).](#) I do not show in this example photos and details but in the real report I show.

Design review <https://www.cognitor.com.br/TRtypicalENGAll.pdf>

Report for IEC 62271-307 review : [https://www.cognitor.com.br/TR\\_Typical\\_E62271\\_307\\_ENG.pdf](https://www.cognitor.com.br/TR_Typical_E62271_307_ENG.pdf)

- B) Software SwitchgearDesign and validation.  
[https://www.cognitor.com.br/TR\\_071\\_ENG\\_ValidationSwitchgear.pdf](https://www.cognitor.com.br/TR_071_ENG_ValidationSwitchgear.pdf)

- C) Some bibliography used in the training

- <https://www.cognitor.com.br/180posts.pdf>
- [https://www.cognitor.com.br/Book\\_SE\\_SW\\_2013\\_ENG.pdf](https://www.cognitor.com.br/Book_SE_SW_2013_ENG.pdf)
- A video to check if my English is good for your understanding

<https://www.youtube.com/watch?v=3expB4wHiCM>

- D) Training program (up to 7 participants: <https://www.cognitor.com.br/trainingENG.pdf>

- E) Proposal for Design Review + Training + software (to serve as reference for a contract to be signed before the beginning  
<https://www.cognitor.com.br/proposal.pdf>

## LECTURER:

The design review and training are presented by Eng. Sergio Feitoza Costa - Director of Cognitor (curriculum-vitae at <http://www.cognitor.com.br/Curriculum.html> and on the website [www.cognitor.com.br](http://www.cognitor.com.br)

To enable you to know me better, here are some works I helped to do <https://www.cognitor.com.br/HelpedToDo.pdf> .

Also read this link <https://www.cognitor.com.br/heritage.html>

In these links there are more articles and uses of the software

<https://www.cognitor.com.br/Downloads1.html>

**ABOUT PRICES :** Depending of what you need to do the prices vary between USD 4000 (web training + software), 6000USD ( design review + web training + software) to 8000USD ( design review + presential training + software)i. In the case of presential training add all the travel expenses (air tickets, hotel, transportation, and meals by your account). In general prices are not negotiable.

**TYPICAL PAYMENT CONDITIONS** is 35% when signing the contract and 65% in the conclusion of the service, as defined in the proposal. Conditions may have some adaptations if you need.

**IF YOU WANT A DETAILED PROPOSAL** that will serve as the basis for the contract please send me an e-mail with company contact details and basic drawings (geometry, voltages and currents) of the equipment to be analysed.

Best Regards

Sergio Feitoza Costa

[www.cognitor.com.br](http://www.cognitor.com.br) [sergiofeitozacosta@gmail.com](mailto:sergiofeitozacosta@gmail.com)