

Global Outreach Series (GOES) #9

WEBINAR TALK ON

**RECENT UPDATES ON LIGHTNING
PROTECTION STANDARD
IEC 62305-2
LIGHTNING RISK MANAGEMENT**



ALAIN ROUSSEAU



29 FEB

THURSDAY



06.00 PM - 7.30 PM

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SYNOPSIS

IEC 62305-2 titled "Protection against lightning – Part 2: Risk management" is an important standard because it defines the risk parameters and equations in case of lightning strike and surges. It serves also as a basis for many other standards that incorporate a risk calculation such as IEC 60364-4-443 for LV installations, IEC 60364-712 for PV installations, IEC 61400-24 for wind turbines. It is also a standard that has a long experience. It is based on a previous Technical Report IEC 61662 dated 1995. The standard IEC 62305-2 has already been published 2 times (first time in 2006 and a second time in 2010). We are by now at the edge of publishing a third edition.

This presentation will focus on the changes introduced by this new standard:

- Introduction of a single risk R instead of 3 risks (human beings $R1$, loss of service $R2$, national heritage $R3$).
- Introduction of the frequency of damage to replace and expand the economic risk ($R4$).
- Better definition of many parameters and probabilities.
- Introduction of a larger range of voltages for connected lines, especially extended to HV lines.
- Introduction of Thunderstorm Warning Systems to help reducing the risk for human beings.
- Introduction of tools to better define the probabilities associated to SPDs.
- Introduction of tools to better define the risk to the environment.

SPEAKER'S PROFILE

Mr. Alain ROUSSEAU currently the Chairman of SEFTIM: International lightning and surge protection company based in Vincennes France where SEFTIM is involved worldwide for lightning and surge protection of radars, explosive storage, petrochemical, nuclear industry, leisure activities as well as for training and seminars

Mr. Alain also is a Graduated Engineer from Ecole Centrale de Lyon in 1984, also obtained his Master Electrical Engineering from INPG Grenoble. He has 39 years of experience in Lightning /Surge Protection and in Standards Development.