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# Industrial Cybersecurity for Electrical Systems M. Rossouw – Proconics







## Introduction



#### SANS62443 process

Methodology not prescribed, but process is

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Zone / Conduit definition

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High level assessment:

- GAP analysis & SAL(T)
  - determination
- Zone prioritisation
- Segmentation



Detail assessment

- System prioritisation
- Base protection according to SL/SAL(T) requirements
- Specific vulnerability prioritisation

## SANS62443 – Electrical Systems?



#### Is there a danger?



Aurora demonstration (2007) – specific protection required



US grid incidents2016 –

2019 (DDoS) 10 hour interruption Local Hacks/Incidents What can be done?

Base protection measures (based on risk analysis)



Advanced detection (ML/AI) depend on good baseline



# **Questions?**

