An example of good maintenance practice

Foreword

- The operation of most devices begins with a power connection
- It is necessary to give attention to the main power supply cabin maintenance
- It should not bear any mechanical damage
- The door lock must be functional
- Periodic dust removal is necessary - must be recorded
- The inspection is carried out by an authorized person
- The Industry 4.0 tools allow for continual state detection
Power outage due to lack of maintenance

• Fire at a main panel of the factory that resulted in work stoppage
• Good practice: recording of the preventive maintenance date or electrical part replacement
Using thermal imaging - Transition resistance

- Annual thermal imaging to early detect electrical parts overheating → failure; as one can see visual inspection is not enough
Detection devices -4.0

- A smart detector (middle) detects the combination temperature/ smoke/ fire rise and gives a signal to release the extinguishing media in the problematic area
Advantages of continuous detection

• Continuously monitors :
  • Temperature - signaling
  • The occurrence of smoke - signaling
  • Detect ignition – signaling, disconnects from the voltage, extinguishing inert gas
  • Signaling always by sound, bell and message to designated mobiles
  • All switch boxes were categorized and classified into 3 categories in which this detection system is going to be installed.