CASE STUDY: MAIN LOW-VOLTAGE DISTRIBUTION SWITCHBOARDS and MOTOR CONTROL CENTRES

Pulp Industry

November 2021

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Pulp industry, Spain

Main challenge:

24/7/365 availability in a highly corrosive environment due to the presence of sulphur

CORROSION ISSUE

The manufactured equipment must be suitable for use in highly corrosive environments

ARC-FLASH

Ensure the safety of operations and maintenance personnel in the event of an internal arc fault

AVAILABILITY AND SAFETY

Pulp industry extreme corrosive environment affects negatively to electrical equipment. Maintenance and operation staff is exposed to potential hazards and system availability might be reduced

Safety in case of internal arc fault

Corrosion resistant

24/7/365 Availability

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Solution – MODAN-S Power Distribution Boards and MCC's:

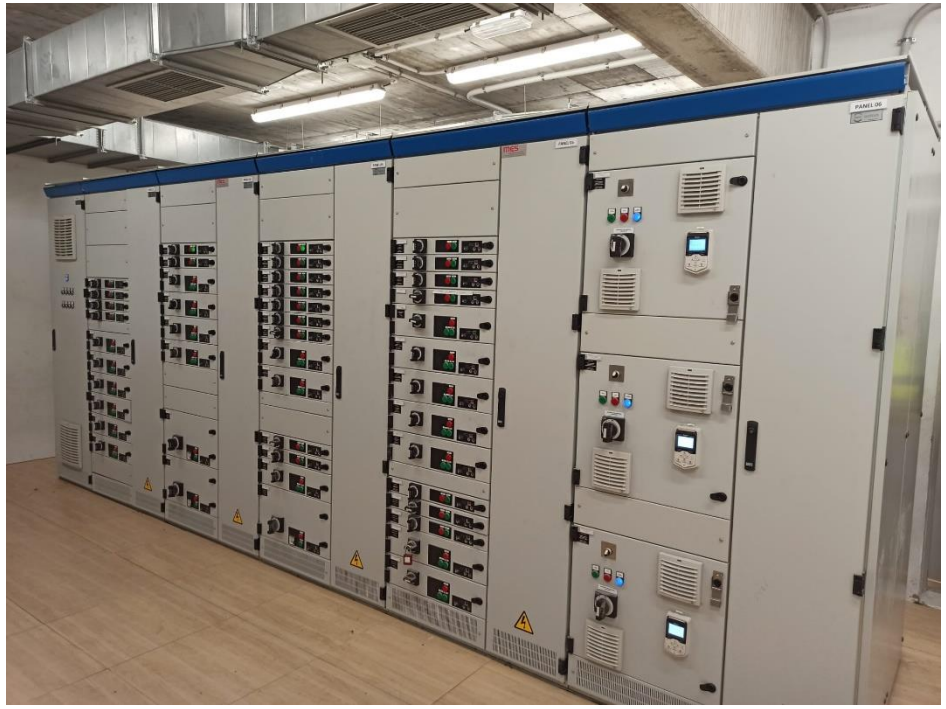
MES proposed EATON's MODAN-S solution, a widely proven option in applications with high technical requirements and in highly corrosive environments

SOLUTION

MCCs and LV Distribution Switchboards acc. IEC61439

1. Withdrawable. Internal separation form 4b
2. Internal arc resistance. Criteria 1 to 7, type C acc. to IEC TR 61641
3. **EATON** MODAN-S System
4. **EATON** switchgears
5. **FULLY Arc-free** vertical busbar area
6. **Gold plated** power contacts

RESULT



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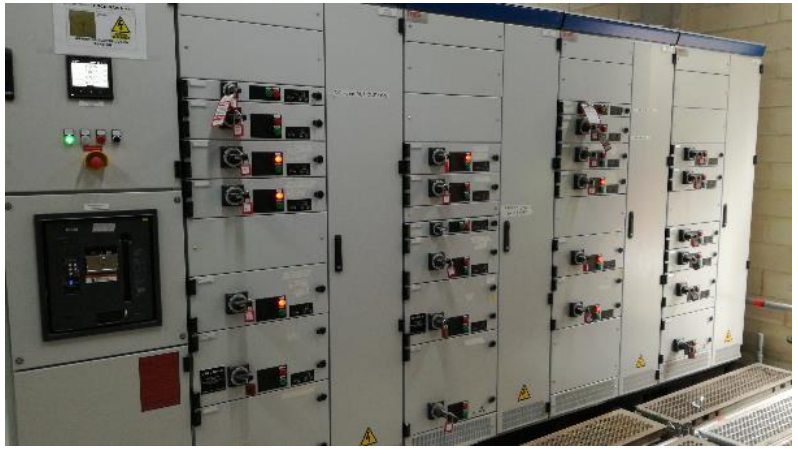
Benefits of the solution:

Ensures the availability and safety of operations and maintenance personnel

BENEFITS

- **Corrosion resistant**
- **Compact, optimal use of available space**
- **Maximum safety for operations and maintenance personnel**
- **Fully removable, supports hot system modification**

MODAN-S: A solution with the highest level of availability, compliant with IEC standards and with the highest level of safety for maintenance and operations personnel. Modular design that adapts to space limitations without affecting performance.



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