

Return experience to help success of cable system project

SC B1 Insulated Cables - PS1 - Q6

“...What lessons learned from industry practitioners for quality assurance during manufacturing and installation and ... operations ... to benefit users of cable systems?”

Hong He, the Netherlands



Quality management: a cornerstone of any project's success

- Project realisation activities:
 - Design, Manufacturing, Installation, Testing and Operation
- Quality management process:
 - Plan activities, Set requirements for activities, Perform activities, Check results of activities and Act upon the findings
- Investments in checking and acting increase the probability of project success
- Quality assurance (QA) vs. Quality control (QC) vs. Testing
 - Testing is only part of QC
 - QC finds deviations or defects in a product
 - QA will re-evaluate and fine-tune processes to avoid/eliminate them.



Group Discussion Meeting

Return experience from failure investigation and consultant service

- During the manufacturing phase
 - Guarantee the cable system integrity
 - Define clear, complete and strict requirements and properties in QA documents
 - Measure and ensure the status of the cable system by QC procedures
 - A set of manufacturing plans shared in text contribution as a checklist
- During the installation phase
 - Installation is complex and different for each project
 - Cable system shall be installed in the intended environment
 - All cable system limitations shall be respected
 - A set of installation plans shared in text contribution as a checklist
- During the operational phase
 - Operate cable system within the design basis boundaries (e.g., thermal limitations)
 - Cable environment may change over time
 - Monitoring communication, temperature, strain, vibrations and more
 - Root Cause Analysis in case of a failure

Group Discussion Meeting