



Juan M Villa Information

Background:

Mechanical Electrical Engineer (UANL 1978):

- Power Transformer Consultant with broad experience on IEEE standards tests at factory, as well as Power Transformers on site.
- Quality Assurance Manager with broad experience in coordinate, develop and implement ISO 9001 QS, as well as QS Auditor focused on evaluate effectiveness of the QS Management.

Specialties:

- Power Transformers Testing and Manufacturing
- Delivery, Installation, and Energization of Power Transformers
- ISO 9001 QS, Auditing, Evaluation and Surveillance.
- Corrective action procedure for Failure Analytical Detection.

Focused Areas of Expertise:

- Factory Acceptance Testing oversight
- HV and EHV Power Transformer: Technical Specifications, Test Plans, Factory Acceptance Testing and Test Reports
- OEM Factory Qualification
- Core & Coil Assembly Inspections
- Internal Inspections and Condition Assessment
- Final Test Failure Analysis
- Manufacture Process Witness
- Evaluation and diagnosis of ISO 9000 Quality Management Systems
- Quality System audit for Power Transformers Design and Manufacturing Process
- Development of analytical tools for problem solving
- Implementation of knowledge development systems as a strategy for efficient training of key personnel in processes.
- Knowledge for Insulation Liquids Physical-Chemical Analysis and DGA diagnosis
- Transformer Training

Past Relevant Working Experience:

Transformer Consultant:

- Witness Tests and Manufacture Expediting at Factory for Power Transformer.
- Technical support for installation and field tests for Power Transformers up to 345 kV, 675 MVA.
- On site delivery inspection and assessment for Power Transformers up to 345 kV, 675 MVA
- On warranty services to solve Customer/Contractors claims.

Transformers Testing:

Test Laboratory Manager for OEM's manufacturing and testing various CORE Type Power transformers up to 850MVA and 525kV.

Test Laboratory Manager for OEM's manufacturing and testing DT transformers from 5 KVA to 20 MVA.

- Maintain and improve productivity and reliability scorecards.
- Design, install and start operations of a test laboratory to increase capacity to test units up to 20 MVA, 34.5 kV.
- Upgrade and automate a test laboratory to be capable to have online (WEB) tests data available for customers, on units from 5 KVA to 100 KVA 1F.

QA Management:

- Evaluate the Quality System for Power Transformer Design Processes. Present a diagnosis of the current Quality Management and recommend corrective actions to improve the QA performance.
- Audit and follow the actions to improve the Quality System in Design Process.
- Coordinate efforts to identify deviations at the design processes and assure meeting Customer Specifications.
- Design, create and lead the organization for the Quality Assurance System for the new operation business, to design and manufacture Industrial Transformers from 225 KVA up to 7.5 MVA, 34.5 kV, 3F.
- Certify the ISO 9001 Quality Assurance System for this Business, with the LRQA.
- Lead and coordinate the organization to develop and implement a ISO 9001 Quality Assurance System for the Power Transformer Business. Units from 5 MVA up to 480 MVA, 400 kV, 3F.
- Coordinate internal auditor group to assure meeting ISO 9001 QMS requirements.
- Improve customer contract review process and develop special quality plan for each customer contract.

PT Manufacturing Process

- Reinforce In Process Inspection System at most manufacturing process stations.
- Coordinate Corrective Action procedure for non-conformities & final test failure.
- Administrate mineral oil system for receiving, storage, process and deliver to manufacturing line for Power Transformers.
- Develop and implement dissolved gas analysis (DGA) for Power Transformer liquid insulation.
- Develop and implementation of self-inspection practices at key manufacturing process for Power Transformers.

Key Skills

Active listening, Reliability, Integrity, Responsible, Respectfulness, Time management, Driven by Customer Satisfaction, Technical problem solving, Teamwork, Availability to travel.

Languages

Spanish, English.

Certifications & Courses

- Lead Auditor by ASQC (1992)
- ISO 9001 QS certified by LRQA (1994).
- Life of Transformers Seminar (DOBLE 1999)
- OSHA certification 2019