

CHARLES A. (Chuck) WILSON

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OBJECTIVE: Consultant in Electrical Insulation Design/ Failure Analysis/ Testing

EXPERIENCE:

CONSULTANT, ELECTRICAL INSULATION
2001 to present

Insulation Integrity Inc.
Georgetown, TX

My consulting work has been primarily in three categories:

Several dozen investigations of in plant or field failures of motors and generators.

Several hundred inspection/ audits of motor/ generator Vacuum Pressure Impregnation and testing processes.

Several dozen trips to follow coil manufacture for motors or generators.

I have also assisted with gathering facts in some legal actions and participated on some value engineering teams, as well as many consultations by phone.

I will provide a list of my clients on request.

SENIOR PRODUCT ENGINEER
1990 to 2001

Siemens Energy & Automation
Norwood, OH

Responsible for the design, manufacturing engineering and quality of coil and winding insulation systems for AC motor and generator stators rated up to 13.8 kV, including random wound stators. Create process specifications and drawings for coil and winding insulation and accessories. Assisted in the acquisition of proper materials for and production of AC and DC traction motors built under license from Siemens-Germany. Investigated and resolved problems with windings or insulation on motor installations. Specified the purchase of some test equipment, such as surge testers and partial discharge analyzers.

STAFF ENGINEER
1988 to 1990

Westinghouse Motor Company
Round Rock, TX.

Responsible for the design, manufacturing engineering and quality of insulation systems and windings for AC motor and generator stators rated up to 13.8 kV, synchronous rotors, DC armatures, DC stators, and random wound exciters. Was involved in setting up a new TECO plant in Taiwan to manufacture large AC motors, synchronous rotors and brushless exciters. Supervised the activities of one engineer and one lab technician.

SENIOR INSULATION ENGINEER
1983 to 1987

Westinghouse Electric Corp.
HIMD, Round Rock, TX.

Responsible for design and some manufacturing engineering of insulation systems and windings for AC motor and generator stators rated up to 13.8 kV, synchronous rotors, wound induction rotors, DC armature and field coils and random wound exciters. Investigated, resolved and reported on field problems with windings or insulation on new motor installations. Participated in the transfer of design information to the minority partner (TECO) of the Westinghouse Motor Co. and the sale of induction motor technology to the Peoples Republic of China. Provided extended technical training to ten insulation and manufacturing engineers.

EXPERIENCE continued:

INSULATION ENGINEER
1979 to 1983

Westinghouse Electric Corp.
HIMD, Round Rock, TX.

Responsible for design of insulation systems for AC motor and generator stators rated up to 13.8 kV and insulation and process specifications dealing with coils or windings for AC machines. Participated in a Value Engineering program which resulted in the redesign and significant reduction in cost of the existing line of AC induction motors. This included redesign of the stator winding support systems and the ventilating system.

SUPERVISOR, WINDINGS AND MACHINING
1978 to 1979

Westinghouse Electric Corp.
ISD, Emeryville, Ca.

Performed scheduling, procurement of parts for motor rewinding and machining. Provided frequent contact with customers and suppliers to insure on time delivery of the repaired equipment. Investigated and resolved field problems with windings or mechanical work.

MANUFACTURING SUPERVISOR
1973 to 1978

Westinghouse Electric Corp.
LRAD, East Pittsburgh, Pa.

Performed scheduling and procurement of parts or equipment required to manufacture turbine generator rotor coils and copper detail parts. Worked with design or manufacturing engineering on problems encountered during manufacture of the product.

SENIOR TECHNICAL ASSISTANT,
INSULATION DESIGN 1966 to 1973

Westinghouse Electric Corp.
LRAD, East Pittsburgh, Pa.

Responsible for coil design calculations and insulation systems for AC motor and generator stators rated up to 7 kV. Assisted Insulation Design engineers on various projects, including testing of winding support systems for turbine generator stators, voltage endurance testing and surge testing of motor coils.

EDUCATION:

Penn State University 1959-1961	Aeronautical Engineering
Carnegie-Mellon University 1966-1971	EE
University of Pittsburgh 1972	EE

MILITARY:

USAF- Nuclear Weapons Specialist 1961-1966

ACTIVITIES-INTERESTS:

I am a senior member of the IEEE and a member of the Dielectrics and Electrical Insulation Society, Power Engineering Society and Industry Applications Society of the IEEE. Member of the Electric Machinery Committee of the PES. Chairman of the Materials Sub-committee, Electric Machinery Committee. I was chairman of WG P1776, which deals with evaluating the thermal properties of insulation systems. Former Chairman of WG P522, Guide for Testing Motor Turn Insulation, and of WG P792, RP for Evaluation of the Impulse Voltage Capability of Insulation Systems for AC Electric Machinery employing Form-Wound Stator Coils. I am a member of active IEEE Working Groups 56, 117, 43, 434, 1310, 1719, 1798 & 1799.

I received the IEEE/ PES/ EMC Distinguished Service Award for 2010.

Member of TerraNova Church, Georgetown, TX.

Interests: Home Computers, Model Railroading.