



ELTEK International Laboratories

EIU Course 102, Class 2: Levels of Interaction with UL

Section 1 – General

1.1 How does ELTEK Labs Interact with UL?

ELTEK Labs interacts with UL through the UL Client Agent Program (CAP). This program covers ELTEK Labs acting as the Agent for our common customer and also acting as a Third-Party testing facility (Engineering). ELTEK Labs has participated in the UL-CAP program since 1992.

1.2 Which UL Locations will ELTEK Labs work with?

ELTEK Labs works with all UL Engineering Service Centers, but not Local Engineering Service Offices or Field Service Offices. ELTEK Labs uses the UL Engineering Service Center selected by our customer. In cases where a new customer does not have existing files at UL, ELTEK Labs can recommend a specific UL Engineering Service Centers as the preferred location. The recommendation of a UL location for any submittal is based on UL staff knowledge of the product category, customer service reputation and smooth handling of the specific product area.

1.3 Agent for Engineering

When ELTEK Labs conducts testing for UL acceptance, we are also acting as a UL “Certified Agent”. All testing conducted by ELTEK under UL’s Certificated Agent Program (CAP) is for Recognition of Materials or Electrical Insulation Systems (EIS). All testing conducted by ELTEK Labs falls only under the Recognition Program since ELTEK Labs does not conduct any testing of end-products for UL Listing. UL is structured for end-product evaluation (Listing) and ELTEK Labs is structured for evaluation of EIM and EIS (Recognition). If ELTEK Labs were to be involved in an end-product evaluation, these projects would not be for UL submittal.

ELTEK Labs conducts short-term and long-term tests on a variety of materials such as magnet wire, varnishes, plastics or injection molding resins, sleeveings, industrial laminates, EIS, Compatibility (sealed tubes, oil, and refrigerants), flame testing, and many others.

1.4 UL Standards Handled by ELTEK Labs

Most of the activities between ELTEK Labs and UL can be defined by identifying the UL Standards covering the testing.

UL 1446 – Systems of Insulating Materials – General

UL 1441 – Coated Electrical Sleeving

UL 510 – Polyvinyl Chloride, Polyethylene and Rubber Insulating Tapes

UL 1565 – Positioning Devices

UL 1004 – Electric Motors

UL 2111 – Overheating Protection Motors

UL 984 – Hermetic Refrigerant Motors – Compressor

UL 94 – Tests for Flammability of Plastic Parts in Devices & Appliances

UL 1694 – Tests for Flammability of Small Polymeric Component Materials

UL 746-A – Polymeric Materials – Short Term Property Evaluation

UL 746-B – Polymeric Materials – Long Term Property evaluations

1.5 UL Product Categories Handled by ELTEK Labs

The following table presents the UL Product Categories where ELTEK Labs is certified. Being certified as an Engineering Agent permits ELTEK to also conduct testing for UL submittals and Recognition.

UL Product Category	UL Description	ELTEK Labs Administrative	ELTEK Labs Engineering
OANZ2	Insulating Tape – Component	X	X
OBEU2	Plastic Materials and Electrical Insulation Systems – Component	X	X
OBJS2	System Components, Electrical Insulation – Component	X	X
OBJY2	Systems, Electrical Insulation – Component	X	X
OBJY8	Systems, Electrical Insulation – Certified For Canada	X	X
OBMW2	(Systems, Electrical Insulation) Magnet Wire – Component	X	X
OBNT2	(Systems, Electrical Insulation) Magnet Wire Coatings – Component	X	X
OBOR2	(Systems, Electrical Insulation) Varnishes – Component	X	X
OCDT2	Insulating Devices and Materials, Miscellaneous – Component	X	X
UZFT2	Sleeving, Coated Electrical	X	X
UZIQ2	Sleeving, Flame Retardant	X	X
UZKX2	Sleeving, Miscellaneous	X	X
OCTU2	Insulation System Components, Electrical, Certified in Accordance with IEC Publications – Component	X	X
PRGY2	Motors – Component	X	
PRGY8	Motors Certified for Canada – Component	X	

UL Product Category	UL Description	ELTEK Labs Administrative	ELTEK Labs Engineering
QMFZ2	Plastics – Component	X	X
QMFZ8	Plastics Certified For Canada – Component	X	X
REUZ2	Pumps, Electrically-operated Liquid – Component	X	