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LOG OF MEETING

DIRECTORATE FOR ENGINEERING SCIENCES

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SUBJECT: Meeting with Underwriter's Laboratories to gain a more detailed understanding of UL 94 and UL 746C.

DATE(S) OF MEETING: July 22 and 23, 1997

PLACE: UL Offices, Melville, NY

LOG ENTRY SOURCE: Hammad Ahmad Malik

DATE OF ENTRY: July 24, 1997 *H. Malik*

COMMISSION ATTENDEES: Hammad Malik, ESEE

NON COMMISSION ATTENDEES:

George Fehmann, UL (July 22 and 23)
Kenneth Vessey, UL (July 22 and 23)
Charles Garufi, UL (July 22)
Robert Wozniak, UL (July 23)
Virginia Herbermann, UL (July 23)
Darrin Conlon, UL (July 23)

SUMMARY OF MEETING: On July 22 Mr. George Fehmann introduced the UL engineers who perform the UL 94 and 746C tests, as well as, work on their development. A brief history of the development of UL 94 and 746C was presented by Mr. Fehmann. Mr. Fehmann also gave a brief progress report on the UL/Industry Ad hoc committee that was formed to look into the CPSC thermoplastic concerns. This committee is working on a Hazard Based Safety Engineering Analysis procedure for UL 746C. This committee is scheduled to meet next in October.

Mr. Hammad Malik gave a brief history of how CPSC arrived at the current concerns with 746C and described current activity in this regard. Mr. Malik asked about the application of the 5" flame test in 746C. Mr. Vessey indicated that this test was mostly for large stationary type appliances. Mr. Malik asked about small enclosure flame testing. Mr. Vessey and Mr. Fehmann indicated that only that test specimen bars molded from the raw material is tested. Mr. Fehmann was asked by Mr. Malik if UL will be willing to perform blind verification testing on samples sent to them by CPSC. Mr. Fehmann indicated that he would have to clear it with the UL upper management.

Mr. Malik spent the remainder of July 22 with Mr. Vessey and Garufi learning how to perform the flame calibration for UL 94 and watching the performance of 94V and HB testing.

On July 22 a brief discussion occurred between Mr. Malik, Mr. Fehmann, and Mr. Vessey. General thermoplastic flammability issues were discussed. Mr. Fehmann described that some new polycarbonates used in CD, Laserdiscs, etc. had some of the salts that are normally formed as part of the material production process removed. This was done to make the material clear. The problem arose that when these salts were removed the polycarbonate became less flame retardant. Mr. Fehmann indicated that as of October 1, 1997 all such materials will automatically be downgraded from V2 to HB unless they are retested with the salts removed and demonstrate that they still meet the requirements for a V2 rating.

For the remainder of the morning Mr. Malik practiced performing UL 94 HB testing under the supervision of Mr. Vessey.

After lunch Mr. Malik met with Mr. Vessey, Fehmann, Wozniak, Conlon, and Ms. Herbermann to discuss UL proprietary information in relation to certain end product standards. This portion was closed.

Mr. Fehmann provided closing remarks and indicated that Mr. Malik will be made a formal invitation to the ad hoc committee meeting scheduled for October, 1997.

Mr. Malik practiced performing UL 94V testing under the supervision of Mr. Vessey.