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LOG OF MEETING

SUBJECT: **Meeting with Cherry Electronics, CPSC, and AHAM for Cherry's Demonstration of a Smooth Glass Cooktop Pot Detection/Temperature Sensing System**

DATE OF MEETING: **February 16, 1999**

DATE OF LOG ENTRY: **February 26, 1999**

PERSON SUBMITTING LOG: **Han Lim, LSE**

LOCATION: CPSC Engineering Laboratory
10901 Darnestown Road
Gaithersburg, Maryland 20878

1999 JUL 28 P 4:30
CPSC/OFFICE OF THE SECRETARY

CPSC ATTENDEE(S): Han Lim, Andrew Trotta, and Warren Porter

NON-CPSC ATTENDEE(S): Michael Schwert (Cherry) and Wayne Morris (AHAM)

SUMMARY OF MEETING:

The purpose of this meeting was to have Michael Schwert of Cherry Electronics demonstrate the capabilities of a smooth glass cooktop pot detection/temperature sensing system. This meeting was conducted as part of the on-going activities of the CPSC range fire project to examine new or existing control technologies built in smooth glass cooktops that could potentially be used for reducing the risk of cooking fires.

Mr. Schwert described the cooktop as a digitally controlled cooktop that can detect the presence and size of metal pans. The cooktop is commercially available in Germany . He demonstrated the pot detection and temperature control capabilities of the cooktop. The detection uses a metal alloy embedded in the glass surface that is aligned with the heating elements. Thus, if a small diameter pan is present, only the inner part of the heating element turns on; if a larger pan is present, the entire heating element is on. The metal alloy is also used for preventing glass breakage. The alloy functions by sensing temperatures which are fed to a digital control system that cycles the burner heat to prevent glass breakage.

Mr. Schwert says that Cherry would like to work together with CPSC to determine if their temperature limiting cooktop can be used for reducing the risk of cooking fires. Although the cooktop was designed for preventing glass top breakage, the digital control system may be able to be modified to reduce cooking fires. Staff intends to investigate this system further.