


Meeting: IEC (International Electrotechnical Commission) TC89 (Fire Hazard Testing)	
Date: 25 to 27 April, 2005	
Meeting Place: Siena, Italy	
<p>Participant from NMRI Koichi Yoshida (Principal Research Coordinator)</p> 	<p>Major Contribution</p> <p>(1) Fire hazard assessment and risk analysis</p> <p>Noting the importance of clarification of responsibility on fire safety and, on the other hand, ensuring the freedom of design for fire safety, IEC/TC89 is developing guidance for assessing the fire hazard of electrotechnical production as IEC 60695-1-10 “General guidance”, IEC 69685-1-11 “Fire hazard assessment” and IEC 60695-1-12 “Fire safety engineering” using techniques of “Fire Safety Engineering (FSE)” that is now being developed by ISO TC92 (Fire Safety). Yoshida, as an active participant to ISO/TC92, have been providing some parts of draft text to these IEC draft standards.</p> <p>(2) Heat release measurement method (IEC60695-8-1, 8-2, 8-3)</p> <p>IEC/TC89 started the development of IEC 60695-8-3: Heat and smoke release - Test for Insulating liquids of electrotechnical products to measure heat release from insulating and other liquids, using ISO 5660-1 Cone calorimeter. This development is based on a Japan-UK cooperative study on technique of heat release from liquid. In Japan, the work has been conducted at Research Institute of Marine Engineering under the supervision of Yoshida, and developed the specimen holder and test procedures. Yoshida is the project leader of IEC 60695-8-3.</p> <p>(3) Ignitability test method by heat flux from flames (New Work Item Proposal)</p> <p>In the existing ignitability tests using test flame as the ignition source, test flame contacts the specimen, but heat input as physical quantity to the specimen is unknown. In this new test method proposed by Japan, heat flux from the test flame to the test specimen (by convection and radiation) is measured and taken the test condition. Thus, ignitability (ignition time) of materials can be obtained based on the heat flux. This proposal is now under NWIP ballot. Yoshida is one of the project leader of this NWI. This test method has been developed by a cooperative study of NMRI and National Institute of Technology and Evaluation (NITE).</p>

National Marine Research Institute