



PROPOSAL FOR A NEW FIELD OF TECHNICAL ACTIVITY	
Date of proposal 2007-12-28	Reference number (to be given by Central Secretariat)
Proposer JISC (Japan)	ISO/TS/P 205

A proposal for a new field of technical activity shall be submitted to the Central Secretariat, which will assign it a reference number and process the proposal in accordance with the ISO/IEC Directives (part 1, subclause 1.5). The proposer may be a member body of ISO, a technical committee or subcommittee, the Technical Management Board or a General Assembly committee, the Secretary-General, a body responsible for managing a certification system operating under the auspices of ISO, or another international organization with national body membership. Guidelines for proposing and justifying a new field of technical activity are given in the ISO/IEC Directives (part 1, annex Q).

The proposal (to be completed by the proposer)

<p>Subject (the subject shall be described unambiguously and as concisely as possible)</p> <p>Industrial Furnaces and Associated Thermal Processing Equipment</p>
<p>Scope (the scope shall define precisely the limits of the proposed new field of activity and shall begin with "Standardization of ..." or "Standardization in the field of ...")</p> <p>Standardization of the requirements for Industrial Furnaces and Associated Thermal Processing Equipment, which include heated enclosures (add heat sources) such as furnaces, ovens, kilns, lehrs and dryers, and heating equipment such as burners, heating control equipment for industrial use excluding electro heat installations.</p>

Purpose and justification (the justification shall endeavour to assess the economic and social advantages which would result from the adoption of International Standards in the proposed new field)

Purpose of this proposal is to establish the new ISO/TC of industrial furnaces and associated thermal processing equipment for developing globally relevant International Standards to facilitate the world wide exchange of products and evaluation services for eliminating the technical barriers to trade. Industrial furnaces and associated thermal processing equipment are used widely in the world for many industrial sectors, such as materials like steel, nonferrous metals and machinery parts like gear and bearing and automobile, ceramic, glass, chemistry and petrochemistry, food processing, etc. Industrial Furnaces and Associated Thermal Processing Equipment is considered as a machinery, and shall be conformed to ISO12100 and ISO14121. In the other words it should be designed and manufactured based on the idea of risk assessment and its operation manual gives enough information including remaining risks.

Industrial Furnaces and Associated Thermal Processing Equipment is essentially different from a domestic or commercial heating equipment such as a hot water boiler, and operates under various temperatures, and has a wide range of capacity and characteristic types of equipment in accordance with required process and products. Sometimes it heats flammable products or heats up in the explosive or toxic gas atmosphere. It is operated by limited professional people in the factory.

The international standardization of this equipment is necessary and inevitable to ensure safety of equipment and its operator, and of product quality and energy efficiency. Global harmonization has now just started. CECOF (the European Committee of Industrial Furnace and Heating Equipment Associations), and IHEA (Industrial Heating Equipment Association; USA) and JIFMA (Japanese Industrial Furnace manufacturers Association) start to exchange mutually the information of their standards for combustion (those are EN 746 , NFPA 86 and JIS B 8415) and compare each other. There are some members that have a potential participating member of new technical committee.

On the other hand, in the CEN there are three Technical committees discussing gas and oil burners, CEN/TC131 and CEN/TC 47 for burner for domestic and commercial use and CEN/TC186 for industrial use. ISO/TC109 corresponds to CEN/TC 131 and CEN/TC 47, but there is no ISO/TC corresponding to CEN/TC186 of which scope covers not only combustion equipments for industrial use but also all things relating to the industrial thermal processing equipment.

In the meantime, new work item proposal of the standards for a gas and oil burner including the industrial use submitted to ISO/TC109 are being discussed only about so called package burner mainly for domestic or commercial use. Actually burner for industrial thermal processing equipment is out of the scope in DIS 22967 and 22968 that is discussed now.

Programme of work (list of principal questions which the proposer wishes to be included within the limits given in the proposed scope, indicating what aspects of the subject should be dealt with, e.g. terminology, test methods, dimensions and tolerances, performance requirements, technical specifications, etc.)

New TC will cover the following aspects:

Horizontal aspects such as terms, safety requirements and testing methods

Equipment specific aspects such as furnaces, burners, fuel supply systems and safe guards

Survey of similar work undertaken in other bodies (relevant documents to be considered: national standards or other normative documents)

EN 746-1,2,3,4,5,8 Industrial Thermo Processing Equipment / Safety Requirements

NFPA 86 Standards for Ovens and Furnaces

JIS B 8415 General Safety Code for Industrial Combustion Furnaces

IEC 60519 Safety in Electro Heat Installations

Liaison organizations (list of organizations or external or internal bodies with which cooperation and liaison should be established)

Internal liaisons should be established with this new TC:

ISO/TC109 Oil and gas burners

ISO/TC161 Control and protective devices for gas and oil burners and gas and oil burning appliances.

IEC/TC27 Industrial electroheating equipment

External liaisons expected :

CECOF: European Committee of Industrial Furnace manufacturers and Heating Equipment Associations


IHEA: Industrial Heating Equipment Manufacturers Association (USA)

JIFMA: Japanese Industrial Furnace Manufacturers Association

Other comments (if any)

JISC is willing to take the responsibility of secretariat of new TC, if it is established.

Signature of the proposer



Kyoichi Hirota

Secretary-General, JISC

Comments of the Secretary-General (to be completed by the Central Secretariat)

Signature