

CENTRE FOR THAI NATIONAL STANDARD SPECIFICATIONS

FIRST ANNUAL REPORT

1967

APPLIED SCIENTIFIC RESEARCH CORPORATION OF THAILAND

196 PHAHONYOTHIN ROAD, BANGKOK 9, THAILAND

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FIRST ANNUAL REPORT

Year ended 31 December 1967

1. GENERAL

Under the Applied Scientific Research Corporation of Thailand Act B.E. 2506, ASRCT is charged, inter alia, with the power of establishing and operating a central scientific and technical standardization unit. ASRCT formed the Centre for Thai National Standard Specifications (CTNSS) late in 1965 to discharge the standardization function of ASRCT. The year 1966 was spent mostly on preliminaries and it was only in the beginning of 1967 that CTNSS became active.

2. ORGANIZATION STRUCTURE

The Centre for Thai National Standard Specifications is organized as part of the central scientific services of ASRCT. It provides all necessary services to the Council for Thai National Standard Specifications, the Advisory Committees, and the Technical Committees. The present structure of CTNSS in relation to other supporting units of ASRCT and its committees is shown in Appendix 1.

3. STAFF

In 1967 CTNSS had only a small staff of its own; it consisted of a senior engineer as its Director, one technical officer and one clerk - typist, but it made use of the common library and administrative services of ASRCT and had access to specialist technical staff of ASRCT for various investigations.

4. COUNCIL

Since the establishment of CTNSS in 1965, the Council for Thai National Standard Specifications has met twice under the chairmanship of the Special Governor, ASRCT. The first meeting was on 30 March 1966 and the second on 23 March 1967,

The membership of Council at 31 December 1967 consisted of representatives from the following organizations :

- (1) Ministry of National Development
- (2) Ministry of Economic Affairs
- (3) Ministry of Agriculture
- (4) Ministry of Industry
- (5) Ministry of Public Health
- (6) National Energy Authority
- (7) Expert Promotion Board
- (8) Board of Investment
- (9) The Engineering Institute of Thailand
- (10) Science Society of Thailand
- (11) Association of Siamese Architects
- (12) Thai Merchants Association

5. ADVISORY COMMITTEES

At its second meeting on 23 March 1967 the Council approved the formation of Advisory Committees in eleven scientific and technological fields; i.e., agricultural and food products, building industry, civil engineering, electrical industry, fundamentals and metrology, mechanical engineering, metallurgy, chemical industry, packaging and handling, consumer products, and textiles.

These Advisory Committees which consist of representatives of government departments, scientific and professional organizations, industry, and consumer interests are to help perform the following functions :

- to scrutinize proposals and advise the Council on which proposals should be taken up for preparation of Thai national standard specifications.
- to recommend appropriate personnel for Technical Committees.
- to advise CTNSS on the acceptance of draft ISO recommendations.
- to undertake other work delegated by the Council as seen appropriate.

By the end of the year 1967 only the six Advisory Committees on

agricultural and food products, building industry, civil engineering, electrical industry, fundamentals and metrology, and mechanical engineering had been activated to meet the requirements of the early stage of CTNSS activities. These Advisory Committees helped scrutinize 19 proposals for preparation of Thai national standard specifications before submission to the Council for approval and also helped consider 166 questionnaires concerning draft ISO Recommendations.

The members of the Advisory Committees are listed in Appendix 2.

6. TECHNICAL COMMITTEES

Five Technical Committees have been appointed by the Council to draft Thai national standard specifications. They are :

- (1) Technical Committee on Bricks and Building Blocks.
- (2) Technical Committee on Stoneware Pipes.
- (3) Technical Committee on Bottles.
- (4) Technical Committee on Dry Cells.
- (5) Technical Committee on Code of Sewerage Practice.

The members of these Technical Committees are listed in Appendix 3

As most of the work was in the early stage of collecting relevant data, investigation, and preliminary drafting of standard specifications, only 6 Committee meetings were held. The Technical Committee on Bricks and Building Blocks was the only Committee to bring a draft Specification (Dimensions of Common Clay Building Bricks) to the final stage. The Specification was approved by the Council and published as the first Thai National Standard Specification in September 1967.

A summary of the work undertaken by Technical Committees is given in Appendix 4.

7. CTNSS ACTIVITIES

7.1 Establishment of Status

In order to perform its functions properly CTNSS needs constant cooperation from various government agencies, both in regard to the

technical knowledge of their personnel and to their scientific and engineering laboratories. Therefore, it was considered necessary to have government agencies notified of the status of the Centre for Thai National Standard Specifications. In February 1967 a report was prepared and submitted to the Prime Minister through the National Research Council. The report was finally submitted to the Council of Ministers which, in its meeting on 13 June 1967, decided that government agencies be advised of the status of CTNSS and be requested to cooperate with, and to make use of, its services. The Secretariat of the Cabinet then issued a circular dated 19 June 1967 which made CTNSS known to ministries, departments and other government agencies.

7.2 Office Management

After determining the tasks to be undertaken it was decided that, for the time being, CTNSS should be organized to carry out six tasks, i.e., administrative, planning and programming, technical coordination, committee meetings, records and information, and international. (See also Appendix 1)

The functions of CTNSS and standard specifications preparation procedure have been laid down as shown in Appendix 5 and Appendix 6 respectively.

The administrative procedures and instructions concerning the details of work in each step of standard specifications preparation procedure and in dealing with national and international documents, including appropriate forms for correspondence, questionnaires, and work control cards have been laid down and will eventually be compiled into an office manual.

7.3 Preparation of Standard Specifications

In 1967, CTNSS began setting up a long range plan for the preparation of Thai national standard specifications. Questionnaires were circulated to all concerned requesting that they indicate topics proposed for preparation of Thai national standard specifications. The proposals were submitted first to the appropriate

Advisory Committees for their recommendations and then to the Council for approval. The approved topics are to be used as the basis for a 5 year plan in which each topic will be planned and programmed according to its priority for preparation of Thai national standard specification.

The work began on August 1967 and by the end of the year 62 proposals had been received and 19 of them were submitted to Advisory Committees for scrutiny and recommendation.

8. STANDARDS PUBLISHED

The whole process of preparation and publication of standard specifications based on the committee method and consensus principle is usually a time consuming process and normally should not be subject to undue haste. It has been learned from other national standard bodies that it may take 3 to 5 years to bring a proposal through the whole process up to publication as an accepted standard specification. The CTNSS has just started its activities and it is therefore considered satisfactory to have its first standard, the Thai National Standard Specification on Dimensions of Common Clay Building Bricks, published within $1\frac{1}{2}$ years after its beginning.

9. STANDARDS LIBRARY

The Thai National Documentation Centre has arranged a standards section in its library, and this relieves CTNSS of a big load. By the end of the year 1967 more than 28,000 standards from 31 countries and more than 1700 ISO Recommendations were added to the collection in the standards library. These included complete sets of British Standards, Indian Standards, French Standards, German Standards and 32 bound volumes of the 1967 ASTM Book of Standards from American Society of Testing and Materials. The details of national standards received are shown in Appendix 7.

10. INTERNATIONAL ACTIVITIES

10.1 International Organization for Standardization (ISO)

CTNSS has been admitted as the Member Body representing Thailand

to the International Organization for Standardization since 1966. During the year, CTNSS received 1723 ISO Recommendations and 682 Draft ISO Recommendations and took action in answering more than one hundred ISO questionnaires concerning its draft Recommendations and some administrative matters.

10.2 Asian Standards Advisory Committee

In November 1967, CTNSS was invited to participate in a meeting of a working group of standards experts from 15 nations in the ECAFE region to prepare a paper for the Asian Standards Advisory Committee meeting held in Bangkok during 25 - 27 November 1967. The CTNSS Director was appointed as a Thai delegate to the ASAC meeting.

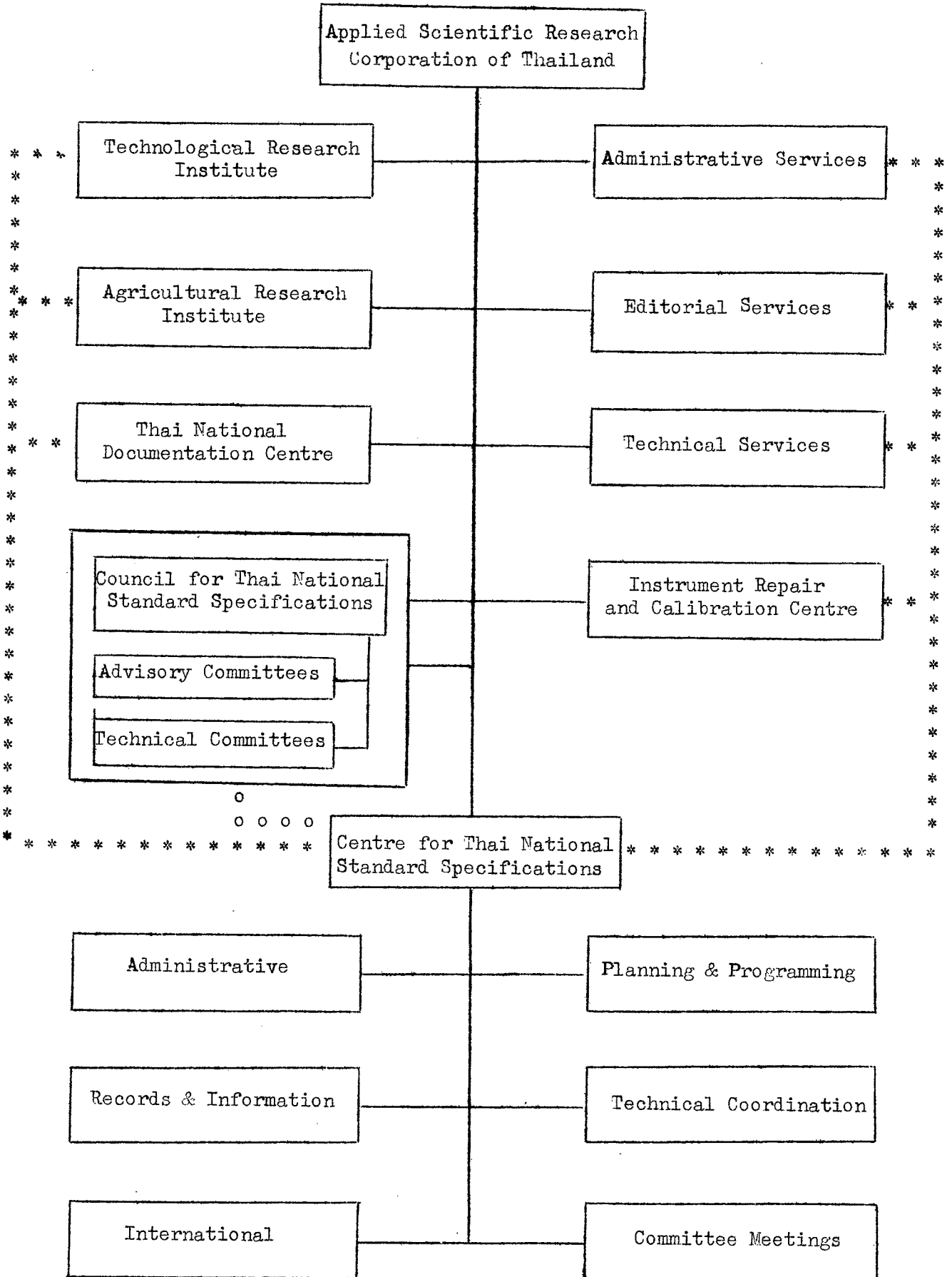
11. PUBLIC RELATIONS

Due to the very limited number of staff, the only public relations activity undertaken during the year was the publication of a booklet entitled "General Information on Centre for Thai National Standard Specifications", in both Thai and English languages. The booklet was distributed to all bodies concerned in Thailand as well as to all Member Bodies of the ISO.

APPENDIX 1

CENTRE FOR THAI NATIONAL STANDARD SPECIFICATIONS

ORGANIZATION CHART



APPENDIX 2

ADVISORY COMMITTEES MEMBERS AT 31 DECEMBER 1967

1. Advisory Committee on Agricultural and Food Products

- (1) Kasetsart University
- (2) Department of Agriculture, Ministry of Agriculture
- (3) Department of Rice, Ministry of Agriculture
- (4) Department of Fisheries, Ministry of Agriculture
- (5) Department of Livestock Development, Ministry of Agriculture
- (6) Royal Forestry Department, Ministry of Agriculture
- (7) Department of Science, Ministry of Industry
- (8) Office of Commodity Standards, Ministry of Economic Affairs
- (9) Division of Food and Beverage Analysis, Department of Medical Science, Ministry of Public Health
- (10) Forest Industry Organization
- (11) Preserved Food Organization
- (12) Food Quality Control Committee, Ministry of Public Health
- (13) ASRCT

2. Advisory Committee on Building Industry

- (1) Chulalongkorn University
- (2) SEATO Graduate School of Engineering
- (3) Department of Public & Municipal Works, Ministry of Interior
- (4) Department of Science, Ministry of Industry
- (5) Department of Highways, Ministry of National Development
- (6) Royal Irrigation Department, Ministry of National Development
- (7) Bureau of Public Works, The Bangkok Municipality
- (8) Directorate of Army Construction
- (9) Construction Department, State Railway of Thailand
- (10) The Engineering Institute of Thailand
- (11) Association of Siamese Architects
- (12) Thai Contractors Association

- (13) The Siam Cement Co. Ltd.
- (14) Christiani and Nielsen (Thai) Ltd.
- (15) ASRCT

3. Advisory Committee on Civil Engineering

- (1) Faculty of Engineering, Chulalongkorn University
- (2) SEATO Graduate School of Engineering
- (3) Department of Highways, Ministry of National Development
- (4) Royal Irrigation Department, Ministry of National Development
- (5) Department of Public & Municipal Works, Ministry of Interior
- (6) Bureau of Public Works, The Bangkok Municipality
- (7) Directorate of Army Construction, RTA
- (8) Directorate of Air Engineering, RTAF
- (9) Civil Engineering Department, State Railway of Thailand
- (10) The Engineering Institute of Thailand
- (11) The Construction Syndicate Ltd.
- (12) ASRCT

4. Advisory Committee on Electrical Industry

- (1) Faculty of Engineering, Chulalongkorn University
- (2) Department of Science, Ministry of Industry
- (3) National Energy Authority
- (4) Yanhee Electricity Authority
- (5) Metropolitan Electricity Authority
- (6) Provincial Electricity Authority
- (7) North East Electricity Authority
- (8) Lignite Authority
- (9) Signal Department, Royal Thai Army
- (10) Post & Telegraph Department, Ministry of Communications
- (11) The Telephone Organization of Thailand
- (12) The Engineering Institute of Thailand
- (13) The National Thai Co. Ltd.
- (14) ASRCT

5. Advisory Committee on Fundamentals and Metrology

- (1) Faculty of Engineering, Chulalongkorn University
- (2) Faculty of Science, Chulalongkorn University
- (3) Department of Science, Ministry of Industry
- (4) Weights & Measures Division, Department of Commercial Registration, Ministry of Economic Affairs
- (5) Directorate of Air Engineering, RTAF
- (6) Ordnance Department, RTA
- (7) The Naval Dockyard, RTN
- (8) State Railway of Thailand
- (9) Office of the Atomic Energy for Peace
- (10) The Engineering Institute of Thailand
- (11) The Science Society of Thailand
- (12) ASRCT

6. Advisory Committee on Mechanical Engineering

- (1) Faculty of Engineering, Chulalongkorn University
- (2) Mechanical Division, Department of Highways, Ministry of National Development
- (3) Royal Irrigation Department, Ministry of National Development
- (4) Mechanical Engineering Department, State Railway of Thailand
- (5) Directorate of Air Engineering, RTAF
- (6) Ordnance Department, RTA
- (7) The Naval Dockyard, RTN
- (8) Department of Land Transport, Ministry of Communications
- (9) The Engineering Institute of Thailand
- (10) The Bangkok Dock Co. Ltd.
- (11) Thai Machinery Industry Co. Ltd.
- (12) ASRCT

APPENDIX 3

TECHNICAL COMMITTEES MEMBERS AT 31 DECEMBER 1967

1. Technical Committee on Bricks and Building Blocks

- (1) Engineering Institute of Thailand
- (2) Association of Siamese Architects
- (3) Major Brick Manufacturers
- (4) Department of Public Works
- (5) Bangkok Municipality
- (6) Chulalongkorn University, Faculty of Engineering
- (7) SEATO Graduate School of Engineering
- (8) Department of Science
- (9) ECAFE Industry and Natural Resources Division
- (10) Concrete Products and Aggregate Co. Ltd.
- (11) Materials of Construction Group, Technological Research Institute, ASRCT
- (12) Thai Contractors Association

2. Technical Committee on Stoneware Pipes

- (1) Engineering Institute of Thailand
- (2) Association of Siamese Architects
- (3) Major Stoneware Pipes Manufacturers
- (4) Department of Public Works
- (5) Bangkok Municipality
- (6) Chulalongkorn University, Faculty of Engineering
- (7) SEATO Graduate School of Engineering
- (8) Department of Science
- (9) ECAFE Industry and Natural Resources Division
- (10) Concrete Products and Aggregate Co. Ltd.
- (11) Materials of Construction Group, Technological Research Institute, ASRCT
- (12) Thai Contractors Association

3. Technical Committee on Bottles

- (1) Engineering Institute of Thailand
- (2) Department of Science
- (3) Major Glass Manufacturers
- (4) Major Dairy Products Plants

4. Technical Committee on Dry Cells

- (1) Engineering Institute of Thailand
- (2) Department of Science
- (3) Dry Cell Manufacturers
- (4) Minerals and Metallurgy Group, TRI, ASRCT

5. Technical Committee on Code of Sewerage Practice

- (1) Engineering Institute of Thailand
- (2) Association of Siamese Architects
- (3) Major Sewage Pipes Manufacturers
- (4) Department of Public Works
- (5) The Bangkok Municipality
- (6) Chulalongkorn University, Faculty of Engineering
- (7) SEATO Graduate School of Engineering
- (8) Department of Science
- (9) ECAFE Industry and Natural Resources Division
- (10) Concrete Products and Aggregate Co. Ltd.
- (11) Materials of Construction Group, Technological Research Institute, ASRCT
- (12) Thai Contractors Association

APPENDIX 4

Development of Thai National Standard Specifications
as of 31 December 1967

Item No.	Reference number of Document	Item	Studied by	Studied since	Development stage	Remarks
1	JFAI : 1	Dimensions of Common Clay Building Bricks	TC 1	Apr. 66	6	Work completed and Standard published.
2	THAI : 2	Glazed Vitrified Clay Sewer Pipes	TC 2	Apr. 66	2	TC met 3 times, draft being revise and translated.
3	JFAI : 3	Glass Milk Bottles	TC 3	Apr. 66	2	Relevant data received, TC second meeting planned for Jan.68
4	THAI : 4	Dry Cells	TC 4	Apr. 66	1	Preliminary draft being prepared.
5	THAI : 5	Code of Sewerage Practice	TC 5	Apr. 66	1	Draft being prepared by Asian Institute of Technology.

TC Number

Development Stage Number

- | | |
|--|--|
| TC. 1 - Technical Committee on Bricks & Building Blocks. | 1 - Gathering data and preliminary draft being prepared. |
| TC. 2 - Technical Committee on Stoneware Pipes | 2 - Draft being studied by TC |
| TC. 3 - Technical Committee on Bottles | 3 - Public comment |
| TC. 4 - Technical Committee on Dry Cells | 4 - Final draft being studied by TC |
| TC. 5 - Technical Committee on Code of Sewerage Practice | 5 - Council study |
| | 6 - Work completed |

APPENDIX 5

FUNCTIONS OF CTNSS

CTNSS has been established to perform the function of a central national body in the preparation and issuing of Thai National Standard Specifications in the scientific and technological field. It also aims at the promotion of the development of standardization in Thailand.

The functions of CTNSS may be summarized as follows :

- (a) To prepare and issue the necessary standard specifications, including codes of practice, as required by ministries, departments, and other government agencies, as well as those required by scientific and industrial organizations.
- (b) To promote scientific and technological standardization in Thailand so that it may be systematically and firmly established as in the developed nations.
- (c) To provide a central standards library, with collections of Thai standards as well as other national and international standards.
- (d) To render assistance and cooperation to those who may wish to prepare and issue standard specifications for use in activities under their control.
- (e) To operate a certification marking scheme to designate products which conform to Thai national standard specifications.
- (f) To cooperate with international standardization agencies and national standards bodies of other countries.

APPENDIX 6

STANDARD SPECIFICATIONS PREPARATION PROCEDURE

The procedure governing the preparation of Thai National Standard Specifications conforms with universally accepted practices. It includes the following stages :

- (a) Proposal for drafting a standard specification originates either from CTNSS or from any organization, service, or person concerned.
- (b) Scrutiny of proposal by appropriate Advisory Committee.
- (c) Approval of proposal by the Council for Thai National Standard Specifications.
- (d) Establishment of a Technical Committee.
- (e) Preparation of draft Standard Specification.
- (f) Publication of draft Standard Specification and submission for public comment.
- (g) Reconsideration of draft Standard Specification in the light of comments received.
- (h) Submission of revised draft Standard Specification to the Council for approval.
- (i) Approval of Standard Specification by the Council.
- (j) Publication and issue of Standard Specification.

The revision of a standard specification requires the same steps.

APPENDIX 7

NATIONAL AND INTERNATIONAL STANDARDS RECEIVED DURING THE YEAR 1967

1. NATIONAL STANDARDS

Country	No. of Standards received	Country	No. of Standards received
Argentina	33	Korea	831
Australia	823	Netherlands	292
Austria	79	New Zealand	316
Belgium	164	Portugal	142
Canada	41	Rumania	999
Central Africa	70	South Africa	593
Central American Research Institute for Industry	124	Spain	221
Columbia	57	Sweden	583
Cuba	76	Switzerland	10
Denmark	907	Turkey	89
Egypt	465	United Kingdom	4,807
France	7,320	U.S.A.	
Germany	1,914	- Society of Automotive Engineers	1,697
Hungary	638	- American Society for Testing and Materials	32 Volumes
India	4,144	U.S.S.R.	1,267
Iran	233	Yugoslavia	616
Italy	360		
Japan	95		
Total		28,219 & 32 Volumes of ASTM	

2. INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (ISO)

ISO Recommendations	1,723
ISO Draft Recommendations	682

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