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Summary of Activities

In the previous missions, there have been studied and investigated the principles, details and special requirements for the promotion of the standardization of the complete scope of iron and steel plant equipment in Brazil. The research work was resulting in the elaboration of several standard catalogs, comprising the proposals for the most essential standard subjects in the different areas of iron and steel plants, as follows:

a) Mechanical equipment
b) Electrical and electronic equipment
c) Civil engineering and building construction
d) Process measurement, instrumentation and process control
e) Steel making and steel forming

These catalogs are summarizing the exact headings of the proposed standard subjects with the listed corresponding reference standards of international or national standard organizations of high-industrialized countries. The complete headings of the reference standards and regulations describe and clarify the individual subject contents. Furthermore, the catalogs are comprising the complete identifications of the reference standards with the necessary language information and the proposed priority classification.

After the examination and receipt of comments of the first elaborated lists, it has been decided to revise and complete the existing catalogs, considering the following aspects, in principal conformity with the job description.
- Specify for each listed standard subject several reference standards of different standards institutions, as far as possible.

- Update the listed reference standards according to the latest stage of standards development (catalogs 1982) and to the publications "Worldwide list of published standards", monthly issued by the British Standards Institute.

- Complete and improve the standards catalogs by additional standards, as far as it seems necessary.

- Correct some errors or inaccuracies in the elaborated lists.

- Consider the received recommendations or comments by Brazilian firms (p.i. Usimas).

For reasons of the extensive completion, revision and the enlarged scope, it was necessary to retype completely the elaborated individual catalogs, without changing the principal concept. Furthermore, the revised catalogs have been implemented on the basis of the following points of view and fundamental purposes:

- The catalog and the listed reference standards should serve as a model and solid basis for the elaboration and completion of a modern and perfect system of standards for the equipment of iron and steel plants. The listed reference standards will support to establish and speed-up the extensive standardization work in Brazil.

- On the other side, the catalog shall represent a handbook and survey of the most important standards and regulations for the practical use in design-, construction-, operation- and maintenance departments for the iron and steel plant equipment.
As already outlined, the catalog is principally comprising, as far as feasible, several reference standards for the same or similar subject item, with the original subject headings of the appropriate foreign catalogs. It may be emphasized that the contents and the scope of the individual and corresponding reference standards are not always identical and completely comparable in the various standard organizations of the different industrialized countries.

In conformity to the above-mentioned comments and modifications, the following standards catalogs have been elaborated in the contractual period:

Catalog M: Standards for mechanical engineering and equipment in iron and steel plants
Part I: Mechanical parts (125 pages)
Part II: Piping, armatures and fluid power (123 pages)
Part III: Machinery (Power, generation, material handling and machines) - (143 pages)

Catalog E: Standards for electrical and electronic engineering and equipment in iron and steel plants (292 pages)

Catalog C: Standards for civil engineering and building construction in iron and steel plants (149 pages)

Catalog I: Standards for process measurement, instrumentation and process control in iron and steel plants (110 pages)

Catalog S: Proposed standards for steel making and steel forming equipment (73 pages)
The catalog S is comprising the proposed technical subjects suitable for standardization with exact headings, defining the contents and scope of each item and the corresponding reference standards, but it may be mentioned that there are not many standards issued and available for the proper iron and steel plant production equipment.

For time reasons, the newly typed and bound catalogs (two copies of each) have been mailed after completion directly to the project manager, at UNDP-office, in Rio:

Catalog M, part I, II and III were mailed in November 1983,
Catalog C and I in December 1982,
Catalog S in January 1983,
Catalog E in February 1983.