rds and codes frequently are compromises beween industry groups and are often vague and lifficult to interpret. There are many notable exreptions to this hence Bureau's use of 142 in its continuing type specifications. Another consideration which must not be overlooked is that infustry codes in general provide a minimum level of requirements. As pointed out previously this ninimum level may not be consistent with the nder of reliability required by the Navy.

Many industry specifications accept certified est reports as evidence of compliance with re-This technique is appropriate and xacticable with reliable suppliers, but Government experience with it has not been successful.

JEW MATERIAL AND CONSTRUCTION METHODS

The Bureau is aggressively pursuing a policy if expediting the use of new materials and conaruction methods. In the expenditure of public ands it was natural for a policy of ultra-conseratism to develop. This policy required that all mterials and methods be extensively tested prior o acceptance. Such time honored procedures have or kept pace with rapidly developing technology. hanges are necessary to get immediate benefits rom these developments. Current thinking enisions the following methods of attaining more apid evaluation: (1) Accelerated tests at the Lab t Hueneme; (2) In-Service records of other agenies including state, municipal, and county governents; (3) In-service tests on controlled basis on ctual projects; (4) Federal Construction Council ovestigations; (5) Tri-service Building Materials nvestigations; (6) Examination of existing instalations. The Bureau takes a dim view of test reults from private laboratories where the manuacturer has sponsored the investigation and has aid the bill. Such findings are rarely unfavorable Liberalizing policy, however, the sponsor. oes not mean approval of all new materials and ethods that come along. The Bureau remains esponsible for the expenditures of public funds ad therefore must be reasonably well assured of acceptable level of quality.

In specifying new materials and methods protietary requirements should be avoided. In genral a performance type of specification is best for iis purpose. I would like to point out a weakess that crops up frequently. Apparently some pecification writers feel that if an article is not entioned by name the specification is not proprietary. Performance requirements can be just as proprietary as naming the product. The yardstick is the amount of competition. It is suggested that the following be answered before specifying new materials or methods: (1) Is it competitive; (2) What is its service records; (3) What engineering data are available; (4) Has it been tested and by whom; (5) What is recommended use; (6) What are its advantages over what we are using; (7) What does it cost; and (8) Does it conform to any Federal or Miliatry specification?

USE OF "OR EQUAL"

The use of the phrase "or equal" in specifications has been the source of many controversies and is a questionable specification tool. There is no doubt that this technique eases the preparation of specifications but it shifts the onus of interpretation to the contracting authority. This phrase has many ramifications which manufacturers are quick to point out. Since the products of different suppliers are never identical the bases for equality can become a knotty problem. In general, the contractor will choose the named brand for his source of supply, so that he can be assured of approval of the product without the uncertainty of the "or equal" evaluation. However, there are certain applications where this means of specifying is appropriate as follows: (1) There are no Government-type specifications for the item; (2) The item must be a minor part of the construction project; (3) The item cannot adequately be described because of its technically involved construction or composition. In each instance a minimum of three manufacturers should be included as part of the required description followed by the words "or equal" to assure that the bidding will not be restricted to the particular named manufacturers or suppliers.

FEDERAL AND MILITARY SPECIFICATIONS

The Armed Services Procurement Act and subsequent Department of Defense and Navy Procurement Directives make the use of coordinated Federal and Military specifications mandatory for the procurement of items, materials, and services. The Bureau is governed by these regulations. Procurement as used in the act includes those items, materials, or services which are provided as part of a general contract as well as items, materials, of services which are purchased outright.

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