



## Definitions and Descriptions of Submittal Types

- Type A - Shop drawings are those prepared especially for the project and used for fabrication and/or assembly of material or equipment.
- Type B - Catalog Data is the manufacturers' published brochure describing the salient features such as: size, weight, performance, code conformance, capacity, physical size, pictures, scaled drawings, ratings, and construction features. Specified items and optional features must be clearly marked such that there is no misunderstanding as to what precisely is being proposed. Use the same item reference number from the DS list.
- Type C - Installation Instructions This information is required to explain the preparation and installation of specialized material and equipment. Examples are: 1) outline drawings showing the major components to scale and dimensioned service connection points; 2) service connection requirements such as electrical fuse or circuit breaker size and type, pipe size and type, air duct, critical ambient conditions (cooling, heating, etc.), foundation requirements, and special precautions; 3) all adjustments including alignment procedures, leveling, purging, charging, lubrication, etc., that must precede operation.
- Type D - Operating Manual Maintenance Instructions and Parts List Furnish complete calibration procedures and operating instructions including all necessary pre-startup checks and safety precautions. Maintenance instructions for step-by-step preventive maintenance and minor field repairs that will ensure optimum dependable performance, longevity and life cycle cost, and a manufacturer compiled parts list for maintenance and repair. Also include a symptom, diagnostic, and corrective action schedule.
- Type E - Internal Wiring Diagrams Furnish internal wiring and elementary (ladder) diagrams for factory prewired equipment. Include control diagrams that show the relative position of each component on a system diagram. Also see the Electrical and Mechanical Standard Specifications for more detailed requirements (particularly with respect to substitutions).
- Type S - Special See the Contract Documents for type(s) and requirements.
- Type W - Warranties Provide equipment manufacturer's warranty or other acceptable warranty of equipment suitability, operability, and failure protection. Include the date (or event milestone) when the warranty is to begin, its duration, and Sandia's obligations to maintain it in effect.