Quality assurance

Laser diodes (semiconductor lasers) have a much longer life than other lasers such as gas or solid-state lasers. The components of our lasers have optimum characteristic ranges. To ensure these characteristics and product life, we manufacture our laser diodes based on comprehensive data control using our own custom manufacturing, measuring, and inspection equipment.

●Quality assurance system

(1) After the wafers have been manufactured, electrical and optical characteristics are measured to verify that characteristics can be achieved as the manufacturing process progresses.

(2) In-process inspections are conducted at various manufacturing points to ensure the stability of our assembly operations.

(3) All products are burned-in to minimize initial and random failures.

(4) Characteristics of all products are tested before shipping.

(5) Products are managed by wafer lot. Characteristic data from each line is stored on floppy disk and the continuity of the data is verified.

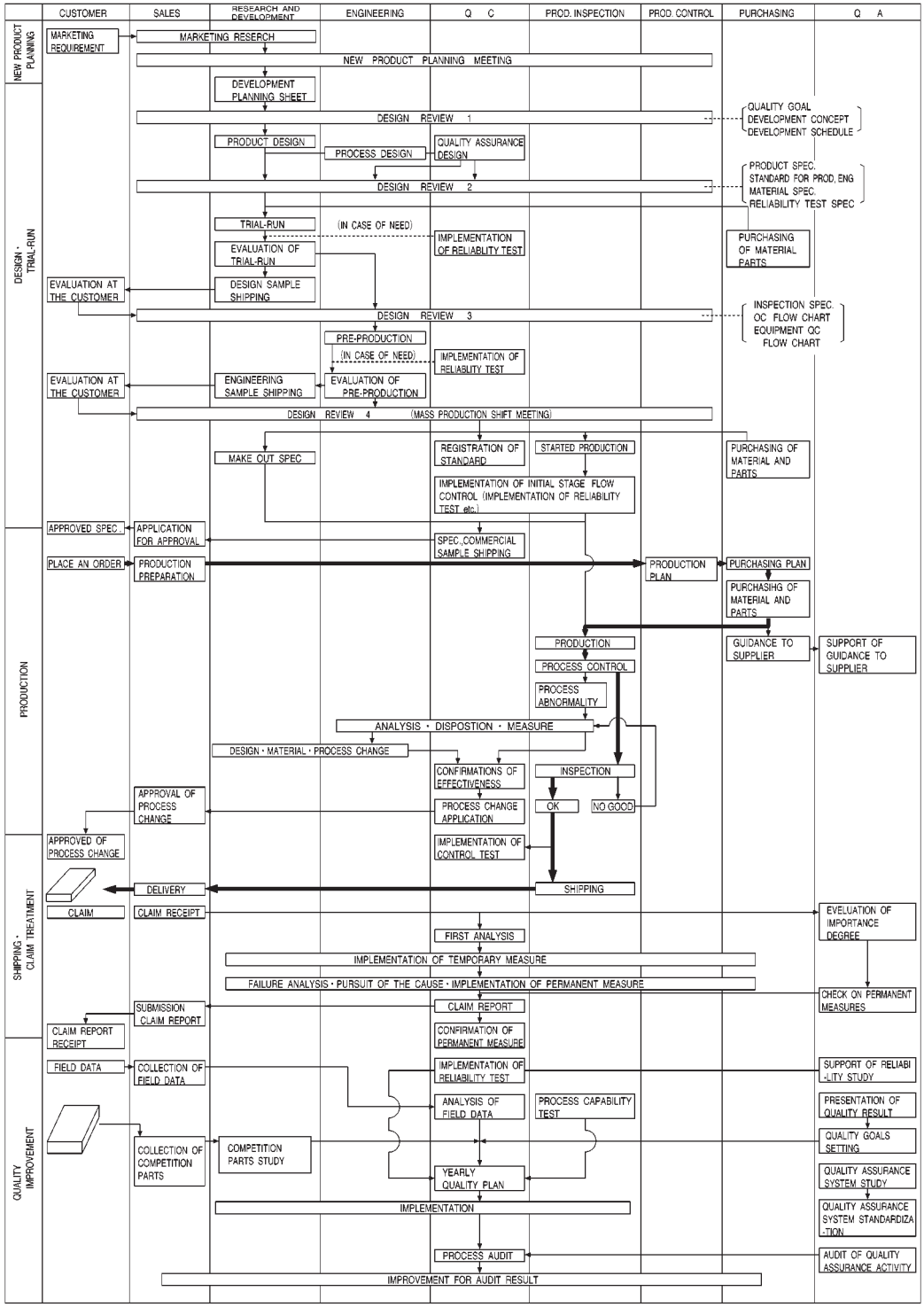
(6) Reliability tests are performed on randomly selected samples.

●Quality assurance measures

(1) Materials, manufacturing conditions, and inspection are controlled and maintained based on company-set standards. Temperature, dust, humidity and other environmental conditions are also controlled based on company standards.

(2) Measurement instruments used during the manufacturing process are regularly inspected and calibrated based on company measurement control standards.

●Quality assurance flow chart



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