



HIGHLY ACCELERATED LIFE TESTING SYNOPSIS

Highly Accelerated Life Testing (HALT) is a design verification tool for testing electronic and electro-mechanical products. HALT employs thermal and vibration stresses that quickly uncover design flaws and precipitates latent defects that might otherwise be exhibited as field failures and warranty problems.

A product under test is powered-up and monitored throughout the testing process. A determination of the root cause of any failures found is made during testing (if possible). Repairs are performed “on the fly” and testing continues to widen the operating margins of the product until the fundamental limit of the technology is reached.

HALT pushes a product to its true operating limits and beyond. Whereas traditional methods simulate field environments and test products within their specifications, HALT stimulates products beyond their specifications, significantly compressing the time needed for testing. HALT testing usually takes 3-5 days compared with weeks or months for traditional reliability assessments. HALT, therefore, is a very significant and cost effective process in bringing the highest quality product to market in the shortest period of time.

BENEFITS OF HALT.

- Reduces R&D costs.
- Increases product quality / reliability.
- Reduces time to market.
- Ability to find and correct defects before your product is released (and before your customers find the defects).
- Maximizes Mean Time Between Failures.
- Lowers field failures, in-warranty problems, and associated costs.
- Ability to confidently increase warranty coverage.

Increase long term profits due to: Higher customer satisfaction and confidence, increase company image and reputation, and last but not least - repeat customers and increased market share.