

## ABSTRACT

Founded in 1979, Seagate Technology Inc., is a leading independent designer, manufacturer, and marketer of disc drives, magnetic discs, read-write heads, tape drives, and a leading developer of software for information availability, access and analysis. Nowadays, the company offers more than 200 rigid disc drive models and has expanded manufacturing plants around the world such as in the USA, Scotland, China, Indonesia, Malaysia, Singapore, and Thailand.

This project scope covers the subject of “Information System of Failure Analysis Department” for Head Gimbal Assembly (HGA) assembly plant in Thailand. Principle responsibilities of this department are the failed part analysis to find actual cause, which degrades HGA performance.

The current existing information system of failure analysis department is based on the manual and some computerized system. Most data are stored on paper, while some parts are stored in Lotus Notes Database. It requires much effort for engineer to manage those data, and has to face the general problems of manual system for example wrong data recording.

The study of this project begins with the requirement definitions and analysis of the existing system. After studying the existing system, the new proposed information system is proceeded in various approaches such as data flow diagrams, structure chart, and etc. It will be developed to replace the manual and some computerized information system. Most data are kept in the database server, Microsoft SQL Server 6.5, and are accessed through application program created by Visual Basic 6. The new system will be able to support staffs efficiently in data usage and management of department and decrease the maintenance cost.