ABSTRACT

Operation & Maintenance Optical Fiber Information System (O&M FIS) is a project development for Dek Undersea Telecoms Co., Ltd. (DUTC) who has been a 20-year concession as a co-investor with the Telephone Organization of Thailand (TOT) to design, construct, and maintain the submarine optical fiber cable system in the Gulf of Thailand.

The project begins with the system study plan in order to study the existing system and its operational problems. The information study includes background of the organization, existing functions and requirements, problem areas and existing hardware and software.

The proposed computerized system will replace the existing manual procedures in order to solve the existing problems of inaccurate and untimely reports, and time consuming on daily operation. Moreover, the new system provides several reports for management to plan and forecast effective decision making.

The report is to document the system development activities and products and is intended to demonstrate that the proposed system and procedures will lead to the saving of time an money by solving the problems identified under this study.

O&M Optical Fiber Information System is to support day-to-day operational activities for Technical staff who work in O&M stations on the Coast side of the southern part of Thailand. And also support the Engineering staff for managing the work to be systematically at the central office (Bangkok). The system provides every function concerning the entry of Fiber Fault monitor, Joint & Factory splice monitor, the creation of weekly report, monthly report, quarterly report and yearly report, the function of Fault Analysis, System monitoring, and Data update after fiber restoration.