Thesis title: DEVELOPMENT OF THE GMP DATABASE SYSTEM FOR HAZARDOUS

SUBSTANCES UNDER THE RESPONSIBILITY OF THE FOOD AND DRUG

ADMINISTRATION

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ABSTRACT

The research was aimed at developing a database system in hazardous substances to serve the Food and Drug Administration. The database system serves as a central repository of the Good Manufacturing Practices or GMP. The database system is operated under a Client/Server environment. Users of the system can access and work with the system simultaneously.

The development process includes the study of system requirements; business need and relationship of current database and the new required database. The system analysis and design was based on object-oriented paradigm using the Unified Modeling Language or UML to medel the database structure, Software Components and the process sequences. The development tool is PowerBuilder version 6.0 and the DBMS is Informix Dynamic Server version 9.40 TC1. The develop system consists of the GMP requested system; the GMP inspection result system; the GMP certificate cancellation system; the GMP authorized certification; the GMP searching system; the GMP reporting system and the GMP certification issued system.

The final outcome of the research is a database system for hazardous substances to support the Food and Drug Administration operation focusing in GMP certification.

Keywords: Development of the Database System, GMP, Hazardous Substances