

Establishment of Alarm Management System for Radiation Emergency Response

^{1,*}Hae Cho Lee, ¹G.Y. Lee, ¹J.S. Kim, ¹H.K. Kim, ¹B.S. Kim, ¹J.S. Kim, ¹G.H. Lee, ¹S.Y. Baek, ²W.S. Heo, and ²K.Y. Sohn

¹Korea Atomic Energy Research Institute, Daedeok-daero989beon-gil 111, Yuseong-gu, Daejeon, Republic of Korea

²MIRAEEN Co., Ltd. 72, Techno Jungang-ro, Yuseong-gu, Daejeon, Republic of Korea

*hclee@kaeri.re.kr

1. Introduction

In the event of a radiation emergency, information sharing and rapid propagation of the radiation emergency should be done promptly in order to effectively perform emergency response in the early stage

From this point of view, this study describes an AMP (Alarm Manager Program) to disseminate the emergency situation early and call the designated emergency responders when the radiation level of the facility or environment rises to the emergency level

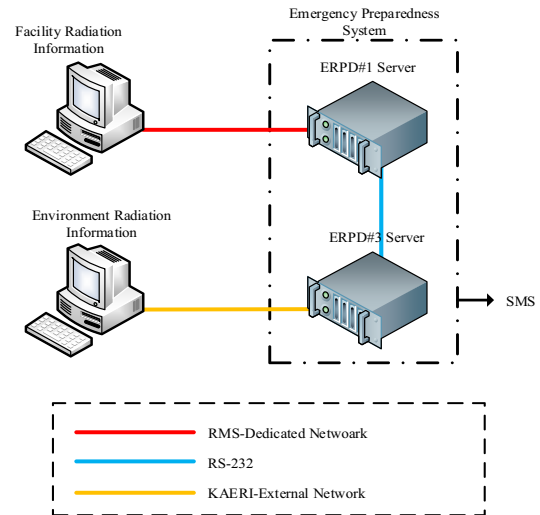


Fig. 1. Hardware Configuration.

2. System Configuration

2.1 Hardware and Software Configuration

The hardware system consists of a computer server for collecting radiation data of facilities and environment, respectively, and a DBMS (Data Base Manager System) for managing data stored in real time as shown in Fig. 1. The facility and environmental data are stored in DBMS in real time. The AMP developed in this study compares real-time radiation data with radiation emergency settings as shown in Fig. 2. If the radiation data is exceeding than the set value, it is designed to automatically propagate the situation via SMS (Short Message Service) and call emergency personnel.

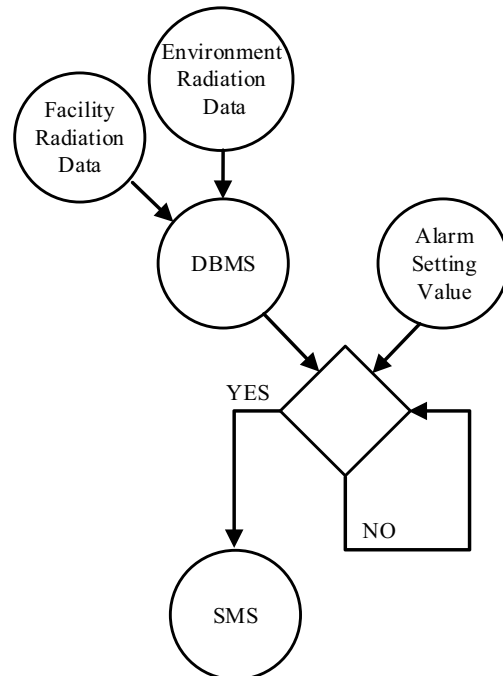


Fig. 2. Software Configuration.

