ABSTRACT

A disaster can happen at any time without our prediction before. When a disaster happens it's necessary to overcome it, so when the disaster occurred in the industry it can anticipate and losses that experienced by the company and the environmental community can minimized. This response should be applied in all industrial sectors, especially the large industrial areas such as SIER area. To make the response a Disaster Management approach can be used. Disaster Management is a policy disaster response phase, that are, mitigation phase, preparedness, response and recovery.

This study aims to identify the industries which have a potential industrial disaster by create a disaster risk mapping and then create an emergency responsive system. Firstly made a mapping system with layer system to determine the level of potential industrial disaster in SIER area based on the level of danger that is the use of dangerous material in the production, the type of industry, and the dangerous waste produced. Mapping the risk itself have a meaning, the result of the danger of a map, that showing the frequency / likelihood of occurrence of hazards in various size and the duration (UNDP, 1994). Preparation of this emergency response system using APELL (Awareness and Preparedness at Local Level) method.

From the results of the mapping that was done, it know that in the SIER area there are about 30 companies that have a high potential hazard that can cause industrial disaster, so an emergency response procedures arranged to response the industrial disaster.

Keywords: Emergency Response, Mapping, Disaster, Mitigation