

ABSTRACT

CV. Kembar Mekar, Ciparay, Bandung, is a medium company engaged in the production of quality livestock feed in Indonesia. In the process of feed processing there was a grinding process that uses a hammer mill machine. At the top of the hammer mill machine needs a container tub equipped with an input hole used to accommodate raw materials to be poured into the hole. Then based on observations made by the researchers, there were important things that become the root of this research problem, that there were many potential hazards in the container of raw materials due to the less safe design shown by the results of risk analysis with a high RAC value that was 2 (serious), and 3 (medium). The purpose of this research is to propose the design of the container to reduce the risk of the work accident so that the RAC value is reduced to 3 - 5. This redesign uses reverse engineering method because it is suitable to redesign the existing product. The objectives have been achieved by creating a proposed container in which there are design changes that can reduce the potential hazard based on prior risk analysis so that the new risk analysis results get lower RAC values of 3 (medium), and 4 (small).

Keywords : Risk analysis, reverse engineering, hammer mill, RAC, REBA, RWL