INDUSTRY-SPECIFIC INTELLIGENT FIRE MANAGEMENT SYSTEM

Problem Statement:

➢ Fire is one of the major concerns when analyzing the potential risks on buildings. To face undesired situations it is common to install fire safety systems in a way to prevent fire occurrence or to protect buildings against such events.

➢ Many Industries are becoming in fire trouble/hazards where the Industrial workers can lose their belongings/properties and lives.

➢ Fire safety systems are usually well designed and properly installed. However the problem appears after this stage, where it is frequent to observe a complete disregarding for the accomplishment of maintenance and test planning.

➢ It can be understood the frequency of tests plays an important role on the building fire safety assurance.

➢ It is expected that the higher the frequency, the sooner hidden failures are revealed.

➢ Thus, the solution relies on establishing a maintenance and test planning and to assure its accomplishment. All critical items of the fire safety systems should be analyzed from the probability of failure and failure consequences point of view and must be tested and inspected to assure system's availability and successfully operation.

➢ A planned test and maintenance approach must be ensured and test frequency accomplished in accordance to that planning.

Benefits of Using Industry- Specific Intelligent Fire Management System:

➢ **Cost effective for larger applications**

The location of a fire condition is detected and recorded at each individual device, identifying exactly where the fire is occurring. This will improve response time for emergency responders.

➢ **Property safety**

Fire detection systems increase response times, as they are able to alert the correct people in order to extinguish the fire. This thus reduces the amount of damage to the property.

➢ **Increase Employee Safety**

Ensure the workers safety from the Industry fire. This is probably the major reason as to why a business will install a fire detection system. A high quality and advanced fire detection and alarm system will be able to warn the employees of a building that they need to get out of the building when a fire is starting and where the fire is in the building.

➢ **Integration of systems**

There are some instances that some buildings require access control systems. This advanced fire detection system is beneficial when these systems are interconnected. When these systems are integrated the fire detection system can disable the access control system and thus enabling people to exit the building faster and safer.

➢ **Quicker Response Times**

The smoke detector system will be connected to a loud alarm system that will be set off when a fire has been detected. This will then alert the people in the building to exit and it will also alert the service provider who will then alert the emergency services. As a result, fire fighters will be immediately dispatched to the business the moment a fire is detected by the system.