FATIGUE MANAGEMENT

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The Fatigue Management system addresses the direct causes of fatigue, including sleep deprivation, long work hours, work during a circadian low point and night work etc. Fatigue is an issue that mine companies do not manage well.

When mines manage health and safety issues, the most important part is risk management. The same approach can be used to deal with fatigue-related issues after having our fatigue management system.

A discussion with each operator after generating their monthly driving behaviors is an imperative component of accident risk management checklist.

There are certain effects of fatigue on machine operators such as: delayed response, decrease in alertness, distorted judgment speed/ability, impaired memory, operator's reduced field vision, increased risk of drowsiness and sleepiness.

The aim of the Fatigue Management system is to improve and enhance the operator's performance as well as business productivity, while considering both operators' and other staff members' safety.

There will be image processing implemented to our Fatigue Management System to perform a predictive warning system. The system will have the following items implemented.

▶ **On-Board camera**
▶ **Fatigue Management Using Advanced Image Processing**
▶ **Sleeping Warning**
▶ **Head Position Detection**
▶ **Smoking Warning**
▶ **Unwanted Behaviors Warning (cellphone use etc.)**
▶ **Custom Made Additional Criteria**

Device ⇄ Cloud Server ⇄ Control Room ⇄ Mobile

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