

ABSTRACT

Even though mitigation has been carried out on aviation activities, in fact aviation accidents still occur in Indonesia. Responsibility for aviation traffic safety is under the auspices of the Air Traffic Controller (ATC). ATC's responsibility as an air traffic controller for aircraft accidents caused by ATC errors can be held civilly or criminally liable if in carrying out their duties they are proven to have acted negligently, causing an aircraft accident. The negligence of ATC officers is thought to be the main cause of accidents, although not all aircraft accidents are caused by ATC errors, but there are other factors such as errors by passengers, pilots, navigation officers and others who are also responsible for flight safety. Therefore, it is important to research related to work safety principles through safety performance which can help organizations to reduce the number of work accidents and create zero accidents.

This research succeeded in developing a new concept of safety based dynamic uncertainty reduction. The research results show that safety performance can be improved by providing safety based dynamic uncertainty reduction by dynamically reducing uncertainty for work safety. This concept is an individual's behavior by dynamically improvising operational routines to improve safety performance in an environment characterized by very high change and uncertainty. This new concept mediates safety leadership on safety performance. Then, theoretically, this research shows that safety leadership is the right model to be implemented in organizations, which combines leadership that supports safety with holistic safety policies. The theoretical implication is that safety leaders must lead by example, ensure rules and regulations are met, facilitate and motivate employees to be active in safety, and ensure safety culture is integrated into the overall company culture.

Keywords: *aviation traffic safety, safety performance, safety based dynamic uncertainty reduction*