ERGONOMICS IN AVIATION: A MODEL FOR OTHER APPLICATIONS *)

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I feel very pleased to be here and to talk with you about ergonomics.

Let me tell you little about myself so that you can better understand may perspective on ergonomics. My background is in science-experimental psychology-and aviation-a pilot. I have been involved in both scientific research and flying since the mid-1960's. I managed to combine these two interests in the mid-1970's and I have been working in aviation human factors or ergonomics ever since.

People are sometimes confused by those two terms-human factors and ergonomics. "Human factors" is the traditional name in America and "ergonomics" is the traditional name in Europe. In Indonesia, and much of the rest of the world, the name ergonomics has become traditional. No matter what is is called, ergonomics is the development and application of knowledge about the physical and mental characteristics of the human to make the workplace more productive, efficient, comfortable, safe, error free, and pleasant. Indeed, the "ergo" in ergonomics means "work". As the discipline has developed, however, it has expanded to include all of our environments and activities as well as those associated with work.

ERGONOMICS - also known as HUMAN FACTORS

As an Engineering Discipline and Science Considers
Human Physical and Mental Capabilities and Limitations
to rnake the Workplace and Products:

Productive
Efficient
Safe
Useable
Error Free
Comfortable
Pleasant

Figure 1. Ergonomics defined as an engineering discipline

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