Propositions

belonging to the thesis

TEAM REFLECTION ON WEAK RESILIENCE SIGNALS
RESILIENCE ENHANCEMENT OF A RAIL SOCIOTECHNICAL SYSTEM
by Aron Wolf (Willy) Siegel

1. Daily team reflection on weak resilience signals yields discussion topics similar to topics that play a role in (near) accidents. (this thesis)

2. After-shift team reflection on weak resilience signals makes resilience related knowledge explicit. (this thesis)

3. Weak resilience signals are notable movements, relative to a previous period, of the operation state towards its system boundaries. (this thesis)

4. Sensemaking of signals, through team reflection, makes that these signals cannot be ignored easily. (this thesis)

5. Simulation models the known - naturalistic observation can reveal the unknown.

6. Humans cannot deliberately calculate the lift of an airplane \( L = \frac{1}{2} \rho v^2 S C_L \) but they can fly it intuitively, thereby trumping simulation (cf. the movie Sully about Chesley Sullenberger landing in the Hudson).

7. The sharp end is never to blame for an accident, since the main cause is the complex interrelated process, rooted at the blunt end.

8. From a distance, the academic world seems very accessible and willing to share its knowledge, but upon closer inspection this is very onerous.

9. Uncoupled from five active e-mail accounts and free from graduation activities, the fresh Ph.D. is open to face the possibilities life has to offer.

10. When this dissertation is read from right to left, according to Hebrew language, new insights will emerge.