



*United States
Nuclear Regulatory Commission*

Reactor Dynamics: Meeting the Challenge

Commissioner Nils J. Diaz

Remarks Before the International Conference on Nuclear Engineering - 10
Washington DC
April 15, 2002

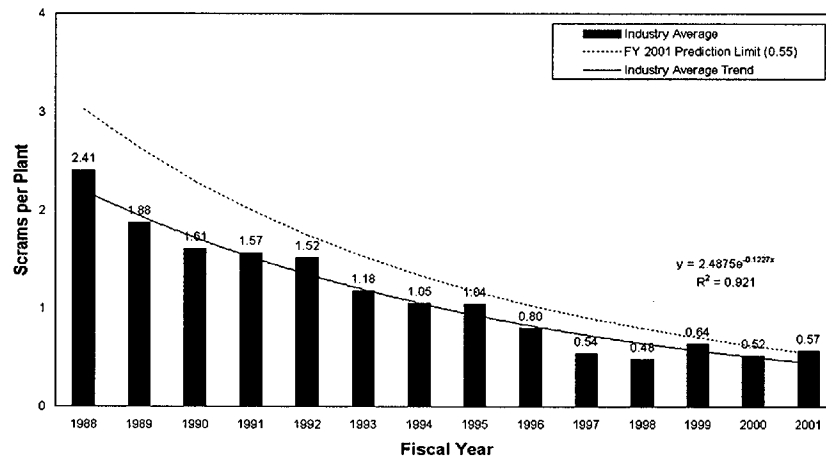
- “Nuclear power is a global socio-political issue and until it is treated and resolved as such, its benefits cannot be realized.”
- “There can be no credible regulator without a credible industry, nor can there be a credible industry without a credible regulator.”
- "A nuclear regulator must master the technology, a nuclear technologist must master the regulations."

- “We are always inside a feedback loop, generating a positive or a negative signal. I prefer the positive output, cognizant I might have to dampen the instabilities.”
- “I much prefer to think and act at the state-of-the-art. I do not like to be obsolete.”
- "Regulations need to result in a benefit or they will result is a loss."

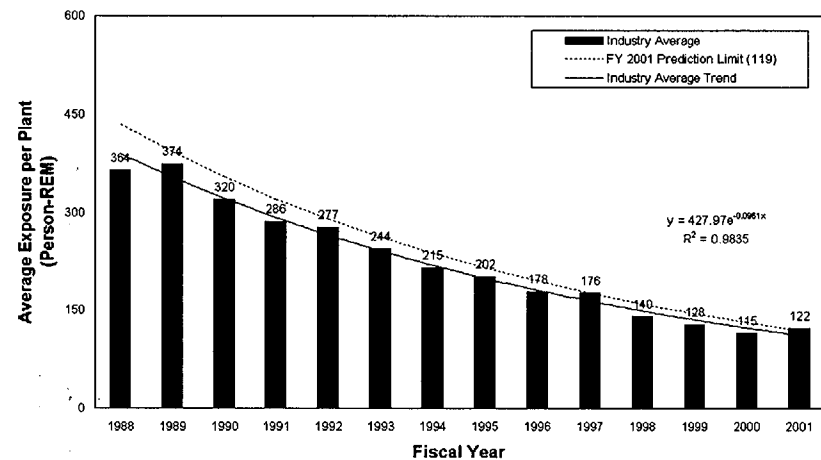
- "My goal is to ensure the paths are clearly marked. A path that is clear of obstacles and unnecessary impediments, with well defined processes, will provide regulatory predictability, equity and fairness."
- "There is no such thing as zero risk. There is only one way to get to zero: $0 = 10^{-8}$ "
- And quoting a United States Court: "The level of adequate protection, need not, and almost certainly will not, be the level of zero risk"

Approaching an Asymptote

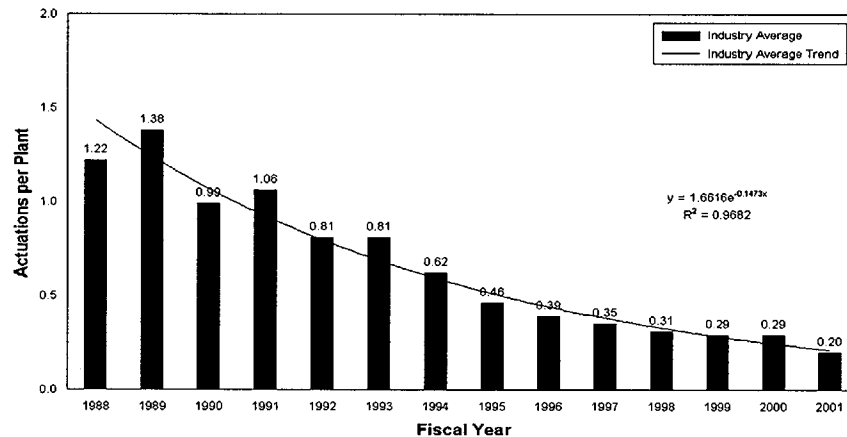
Automatic Scrams while Critical



Collective Radiation Exposure



Safety System Actuations



Significant Events

