

Browns Ferry - March 1975

Three Mile Island - March 1979

Davis-Besse - 1985

The "Near Miss" NUREG

Example from Vermont Yankee

## Review of the 70's (Foundation of Nuclear Safety Regulation)

The NRC requires applicants to use a “**defense-in-depth**” approach. Plant components should be designed for maximum safety in normal operation and maximum tolerance if the system malfunctions. Utilities are required to assume both that accidents will occur in spite of care in design, construction, and operations, and that some protective systems may fail simultaneously.

## Review of the 70's (Foundation of Nuclear Safety Regulation)

“You should not expect the AEC to fight the industry’s political, social and commercial battles.”

AEC Chairman James Schlesinger, speech to industry groups, Bal Harbor, Florida, October 20, 1971

## Review of the 70's (Foundation of Nuclear Safety Regulation)

“Our overriding goal and consideration is safety, and though we are interested in regulatory efficiency, we will take as long as necessary to ensure the plant is safe before it is allowed to operate.”

NRC Chairman William Anders, Testimony  
before the Joint Committee on Atomic  
Energy, March 2, 1976

## Review of the 70's (Foundation of Nuclear Safety Regulation)

“The strong criticism we have received from the regulated industry, responding to what it views as undue regulatory conservatism, reflects the reality that NRC has taken measures it deemed necessary notwithstanding substantial impact on the industry.”

NRC Chairman Marcus Rowden, letter to  
Ralph Nader, October 28, 1976



Operations

Engineering

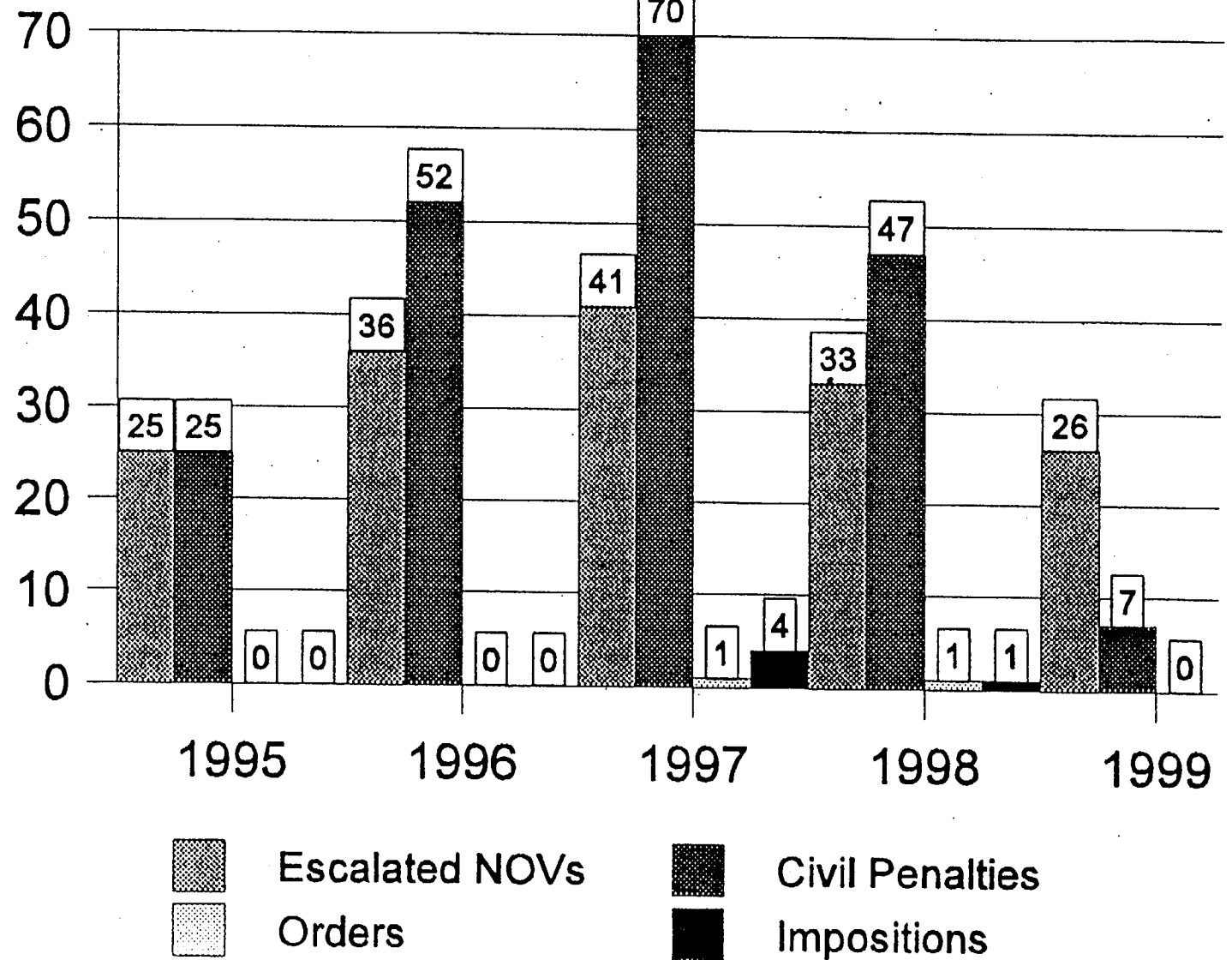
Maintenance

Plant Support

Cornerstones

Performance  
Indicators

## Escalated Enforcement Trends - Reactors



## INCENTIVES

THE PANEL SHOULD INVESTIGATE  
METHODS TO CREATE POSITIVE  
INCENTIVES WHICH ARE VISIBLE TO THE  
PUBLIC FOR SUPERIOR PERFORMANCE.



## DIFFERENTIATION

THE PANEL SHOULD INVESTIGATE  
METHODS TO ALLOW PUBLIC  
DIFFERENTIATION OF PLANT  
PERFORMANCE.