

Public Workshop

Risk-Informing the Technical  
Requirements of 10CFR50

October 2, 2000  
NRC Auditorium - One White Flint

Bob Christie

Performance Technology  
P. O. Box 51663  
Knoxville, TN 37950-1663  
(865) 588-1444  
FAX (865) 584-3043  
[performtech@compuserve.com](mailto:performtech@compuserve.com)

RJE  
10/1/00

## SUMMARY

### Change Hydrogen Control Regulations as of 10/2/00

10CFR50.12 Exemption Requests	Petition for Rulemaking	SECY-98-300 Option 3 Framework	SECY-98-300 Option 3 10CFR50.44
<b>Submitted:</b>	<b>Recent action:</b>	<b>Recent action:</b>	<b>Agreement:</b>
San Onofre 2&3 - 9/10/98 Approved 9/3/99	Letter - Christie to Mike Snodderly (NRC), 7/3/00	ACRS 7/11/00	Delete post LOCA hydrogen requirements including delete measuring hydrogen concentration in short term.
Oconee - 7/26/00	ACRS 7/12/00	Letter - Christie to Ashok Thadani (NRC), 7/19/00	Containment air mixing unchanged
Three Mile Island 9/20/00	Letter - Christie to Sam Collins (NRC), 7/14/00	Letter - Christie to Ashok Thadani (NRC), 8/24/00	Reactor Coolant System high point vents unchanged
	Letter - Christie to Cynthia Carpenter (NRC), 7/20/00	ACRS 8/29/00	Mark I's and Mark II's inerted unchanged
	ACRS 8/29/00	SECY-00-0198	<b>Disagreement:</b>
	Letter - Carpenter (NRC) to Christie, 8/30/00		NRC staff wants to add specific combustible gas source term for severe accidents
	Letter - Christie to Cynthia Carpenter (NRC), 9/7/00		NRC wants igniters operable during Station Blackout for Mark IIIs and ice condensers
			Add long term hydrogen control in Severe Accident Management Guidelines
<b>Future action:</b>	<b>Future action:</b>	<b>Future action:</b>	<b>Future action:</b>
Other submittals in preparation	Mike Snodderly (NRC) working on open purge valve - severe accident	NRC proceeding while waiting for direction from Commissioners	NRC proceeding while waiting for direction from Commissioners

RAC  
10/1/00

## Combustible Gas Control

The utilities recommended a program (Whole Plant Study) in 1997 to change the existing requirements of 10CFR50 to make the regulations more effective and efficient through the use of Probabilistic Risk Assessment. Combustible gas control was chosen as the regulation to demonstrate feasibility of the program (Task Zero).

Task Zero for Arkansas Nuclear One and San Onofre were approved by the NRC staff in September 1998 and September 1999 respectively on the basis of enhanced safety and burden reduction. A petition for rulemaking was submitted based on the results of Task Zero. It is now 13 months since San Onofre Task Zero approval with no change at any nuclear electric power unit to enhance safety and reduce burden with respect to combustible gas control and no progress on the petition for rulemaking.

The utilities are now submitting exemption requests in order to change their nuclear plants to enhance safety and reduce burden with respect to combustible gas control. Why is this necessary?