



**ALDEN**

*Solving Flow Problems Since 1894*

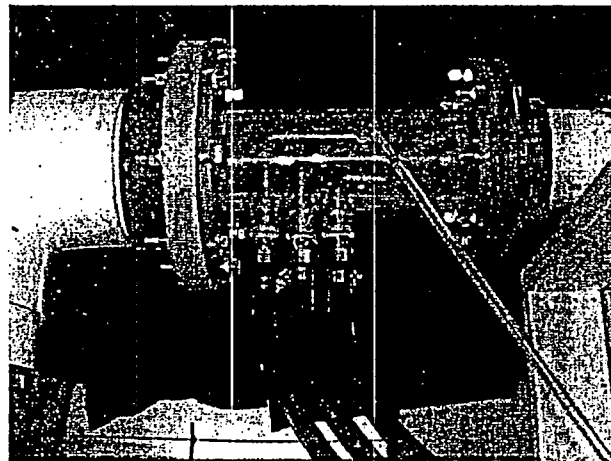


***ACRS T-H Phenomena Subcommittee  
GSI-191 Issues Meeting***

**Rockville, MD  
August 23-24, 2006**

# SCREEN PENETRATION TEST

Isokinetic Downstream Sampling Ports

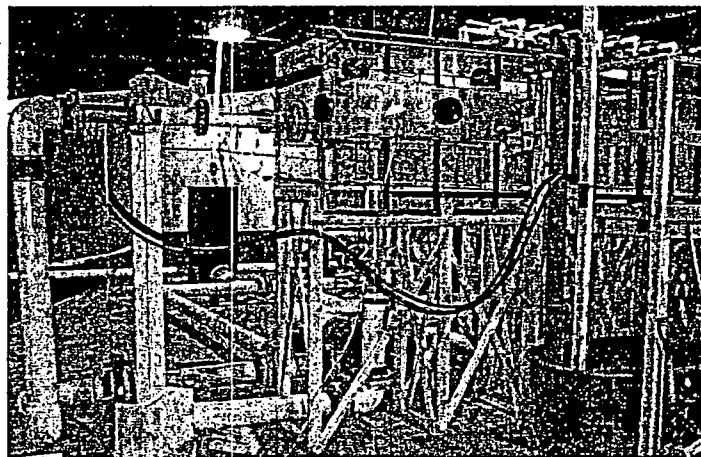


» ACRS CE-1P1 Issues Meeting - August 23-24, 2006

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# SCREEN PENETRATION TEST

Isokinetic Downstream Sampling System



» ACRS CE-1P1 Issues Meeting - August 23-24, 2006

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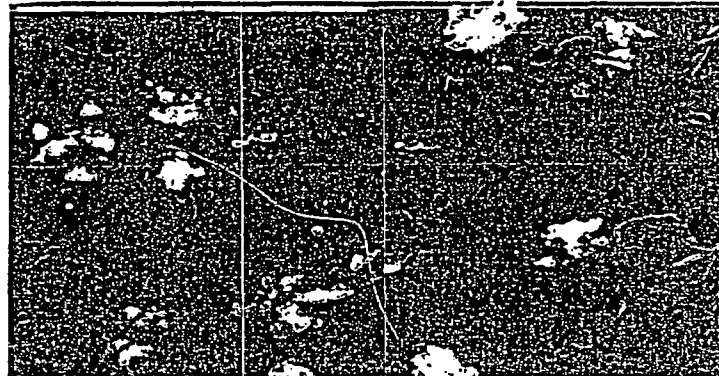
## SCREEN PENETRATION TEST

### > Integrated Head Loss & Penetration Test

- ◆ Samples analyzed via Scanning-Electron-Microscopy (SEM) provide data related to a specific head loss test
- ◆ RV internals evaluation provides an acceptance criteria for pressure loss and does not specify acceptable debris constituents or quantities
- ◆ ECCS components evaluation (for wear and plugging) uses WCAP-16406-P guidance and testing experience based on transported debris loads.

## SCREEN PENETRATION TEST

Downstream Sample Using Scanning-Electron-Microscopy



## TERMINATION CRITERIA

- > Test termination criteria based on BWR experience
  - Increase in 5 minute average measured head loss less than 1%

**AND**

  - Calculated time for flume recirculation five times has been reached
  
- > Data extrapolation using rate of change for head loss at test termination provides a reasonable estimate for extending data

## TERMINATION CRITERIA

Sample Computer Screen at Termination

