



# **Model Update**

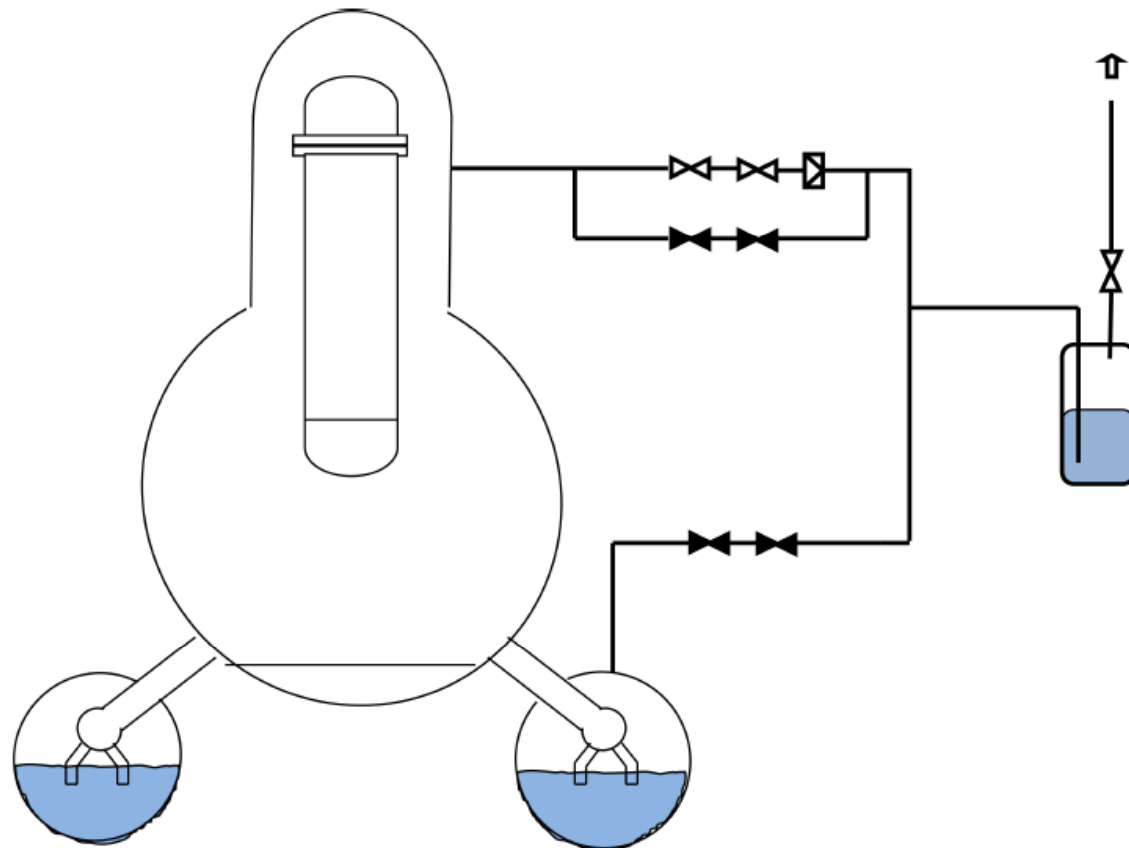
## **Filtering Strategies Rulemaking**

August 21, 2014

# Update of EPRI CDET/APET

- Modified CDET in two areas:
  - Number of SRV cycles (50 cycles in 4 hours)
  - For reference plant, transition to portable FLEX pump earlier due to DW vent not a sufficient backup to WW vent for anticipatory venting
  - Created alternative (base) case for plants that do not install a drywell vent under EA 13-109
- Not a significant impact
  - Small reduction in early core damage scenarios

# SECY 12-0157 Vent Configuration



# Summary of Alternative Cases

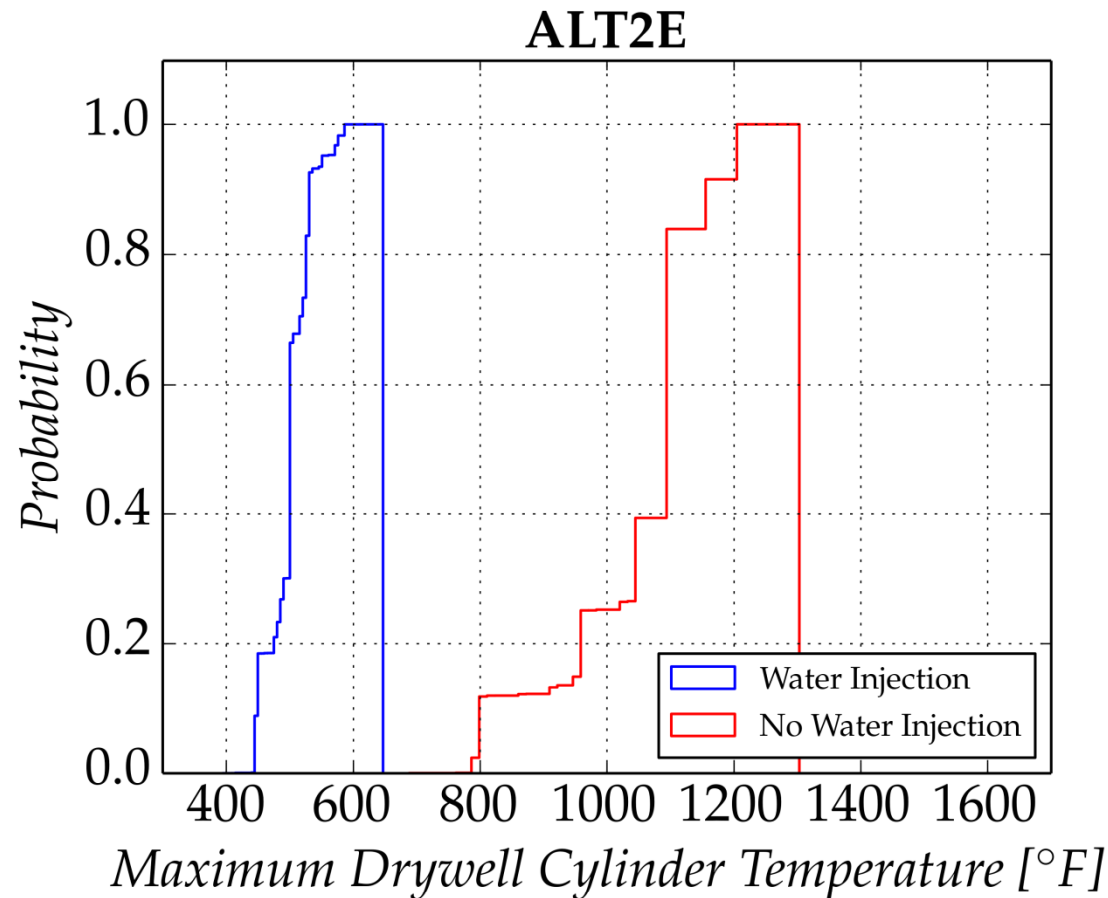
Alternative	SAC WW Vent	DW Vent	SAWA	SAWM	Vent Control	Filter	Filter Path
New Base	Yes	None	No	No	No	None	Manual
1A	Yes	SACV	No	No	No	None	Manual
2A	Yes	None	RPV	No	No	None	Manual
2B	Yes	None	RPV	Yes	No	None	Manual
2C	Yes	None	RPV	No	Yes	None	Manual
2D	Yes	None	RPV	Yes	Yes	None	Manual
2E	Yes	SACV	RPV	No	No	None	Manual
2F	Yes	SACV	RPV	Yes	No	None	Manual
2G	Yes	SACV	RPV	No	Yes	None	Manual
2H	Yes	SACV	RPV	Yes	Yes	None	Manual
3A	Yes	None	DW	No	No	None	Manual
3B	Yes	None	DW	Yes	No	None	Manual
3C	Yes	None	DW	No	Yes	None	Manual
3D	Yes	None	DW	Yes	Yes	None	Manual
3E	Yes	SACV	DW	No	No	None	Manual
3F	Yes	SACV	DW	Yes	No	None	Manual
3G	Yes	SACV	DW	No	Yes	None	Manual
3H	Yes	SACV	DW	Yes	Yes	None	Manual
4A	Yes	SACV	RPV	No	No	Small	Manual
4B	Yes	SACV	DW	No	No	Small	Manual
5A	Yes	SACV	RPV	No	No	Large	Manual
5B	Yes	SACV	DW	No	No	Large	Manual
6A	Yes	SACV	DW	No	No	Large	All Passive
6B	Yes	SACV	DW	No	No	Large	Manual Pre-CD

Legend
No SAWA
RPV SAWA
DW SAWA



# MAAP Results

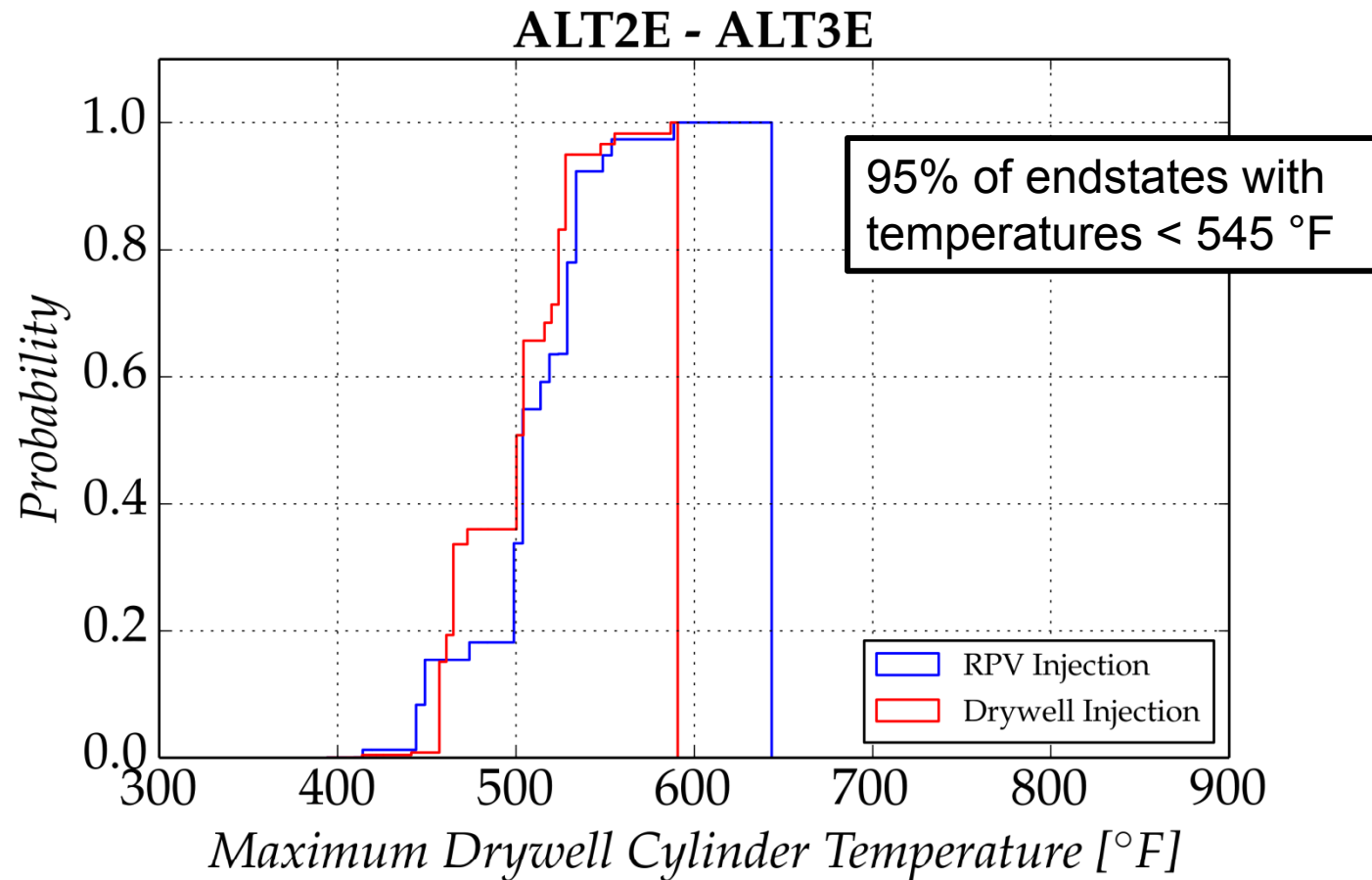
# Water Addition (SAWA) Protects Containment by Reducing Drywell Temperatures



Preliminary

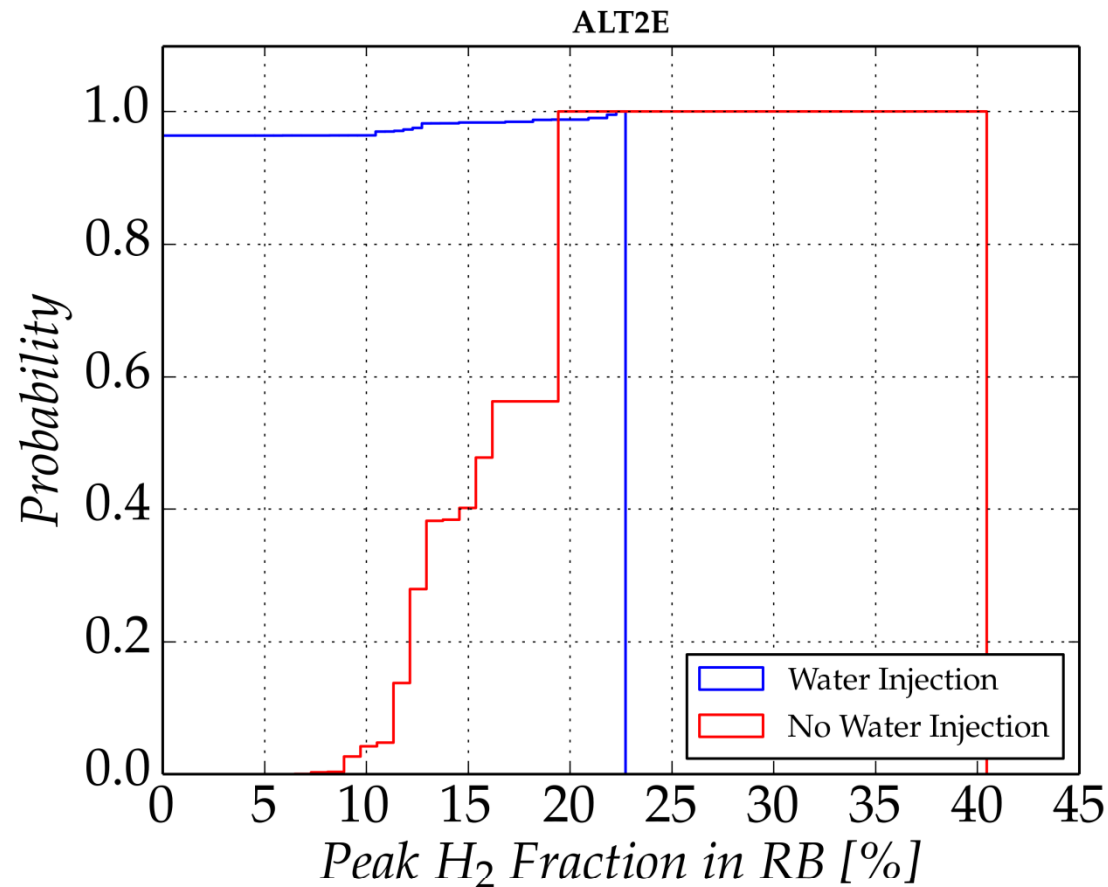
# Impact of Water Addition Location on Drywell Temperatures

(assuming water addition succeeds and Drywell vent actuated)



Preliminary

# Water Addition (SAWA) Impact on Peak $H_2$ Concentration in RB

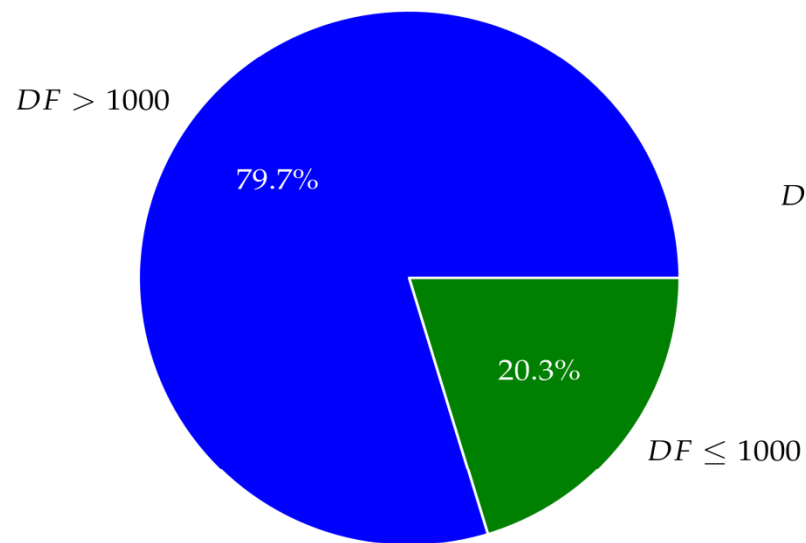


Preliminary

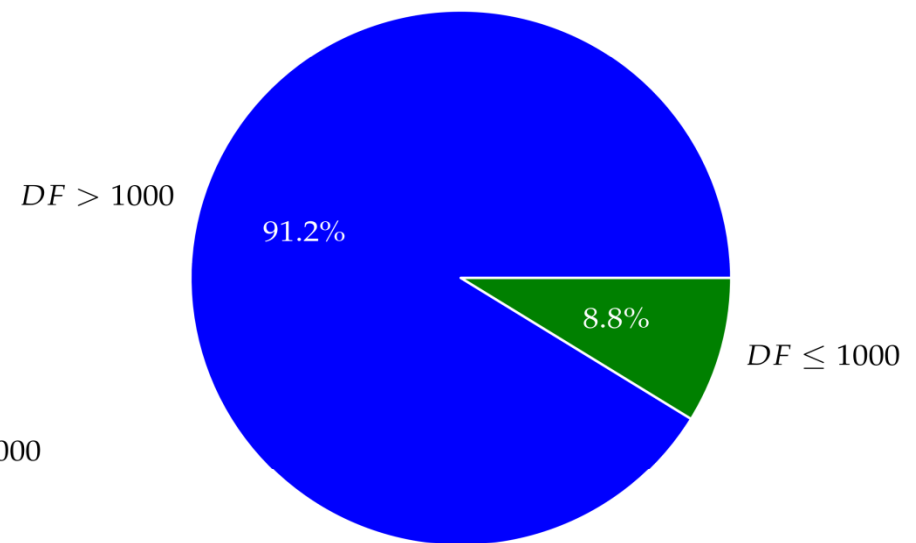


# Impact on DF with Water Management (SAWM)

No Water Management



Water Management



Preliminary

# Overall DF for All Alternatives



Preliminary