

# ***Reinhold Environmental Ltd.***

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***2007 APC Round Table & Expo  
Presentation***

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***July 8-10, 2007  
Chattanooga, TN  
Hosted by TVA***

# Activated Carbon Injection for Mercury Control: Impact of SO<sub>3</sub>

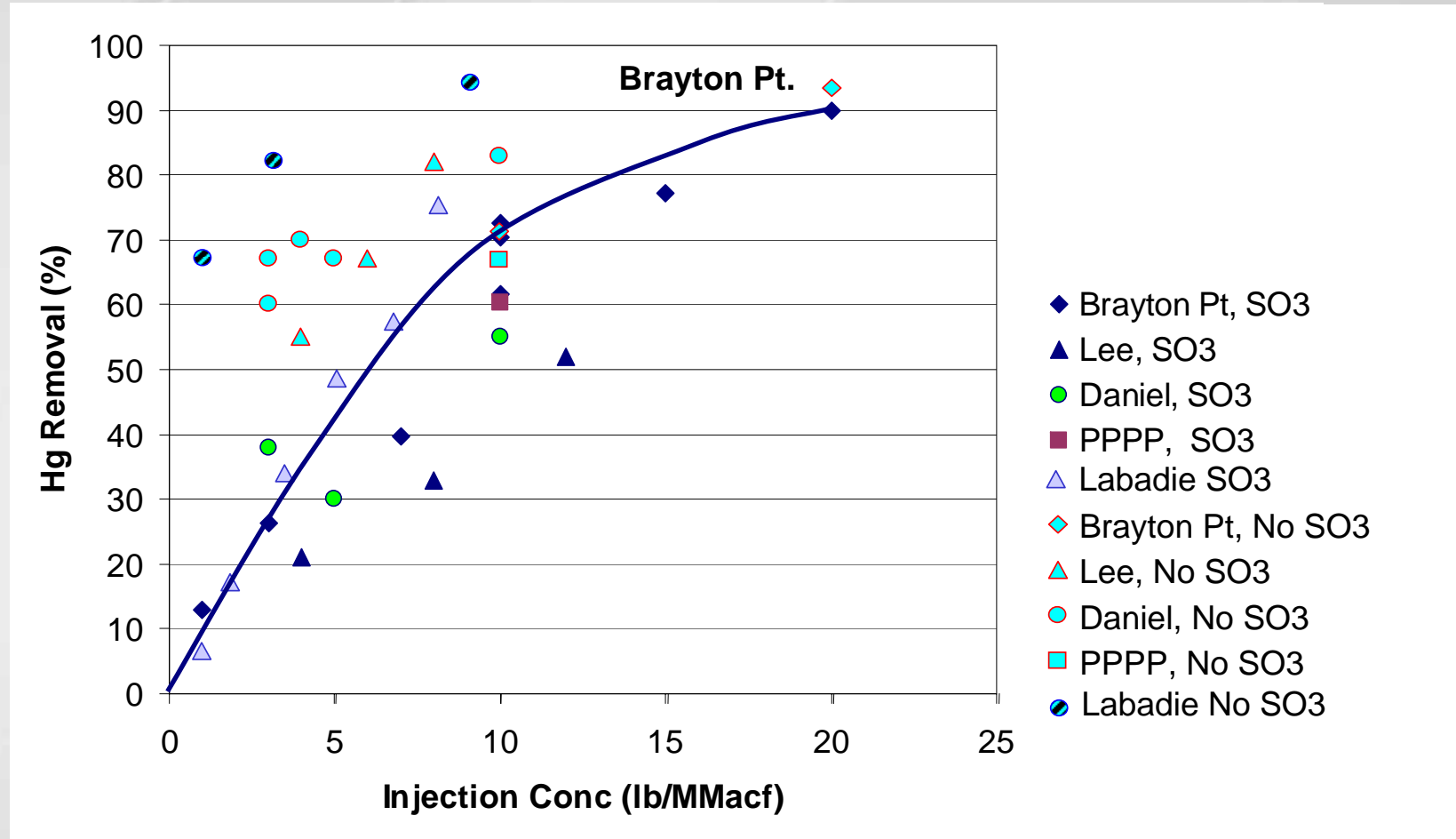


**Tom Campbell  
ADA-ES, Inc.**

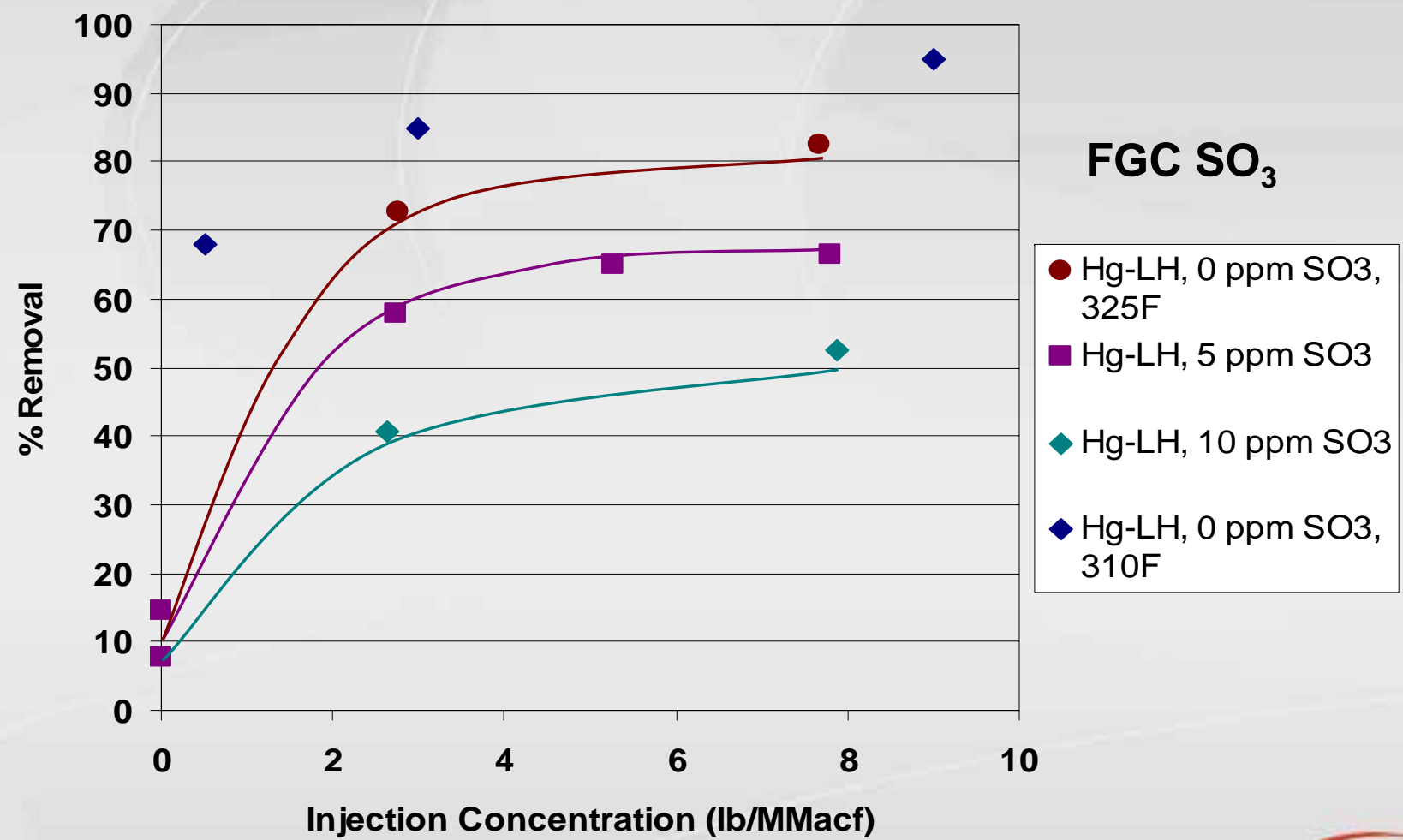
***Reinhold APC Round Table 2007  
July 9, 2007***



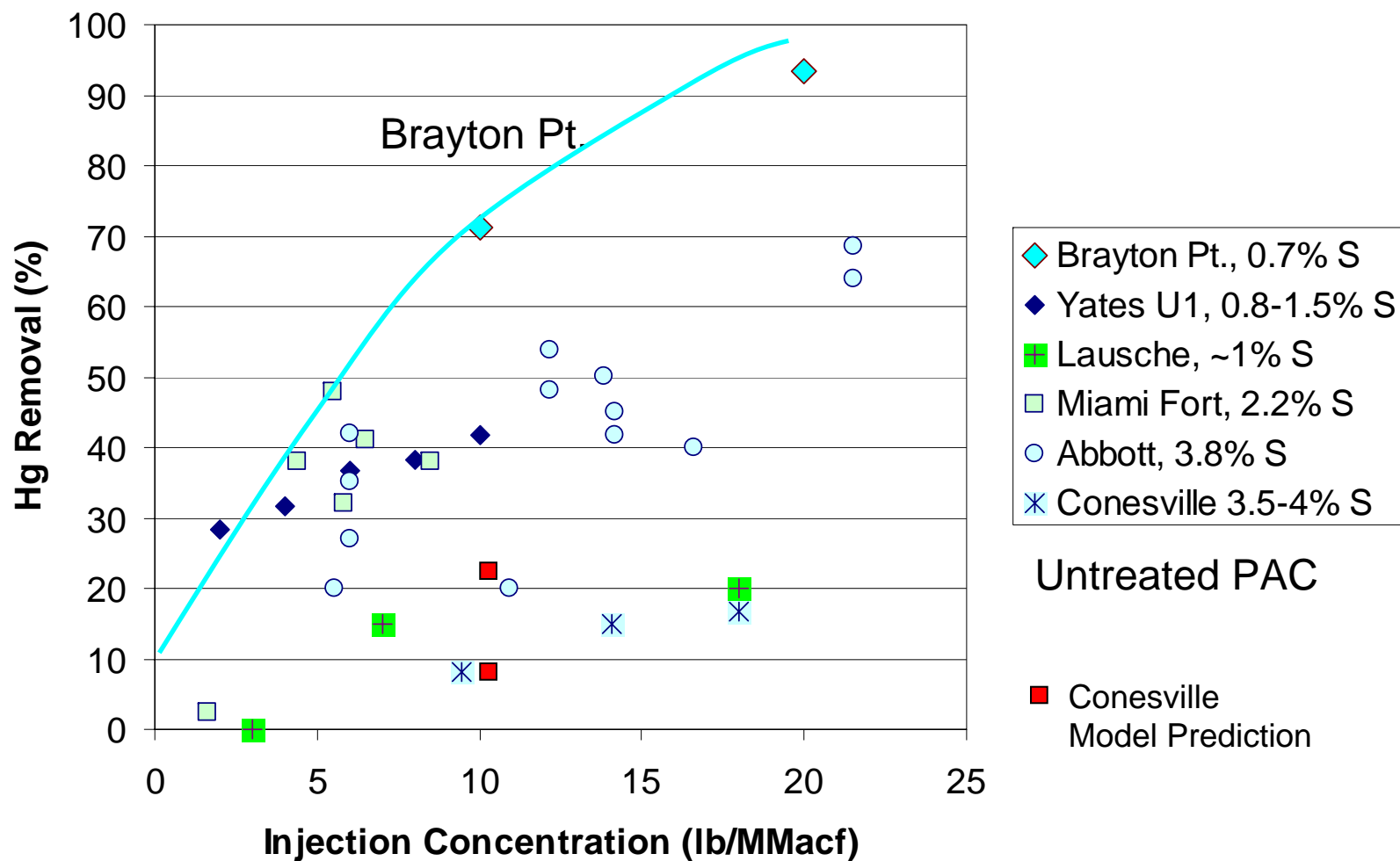
# Impact of SO<sub>3</sub> Injection on Hg Removal: ESP's, PRB and Low Sulfur Bituminous Coals



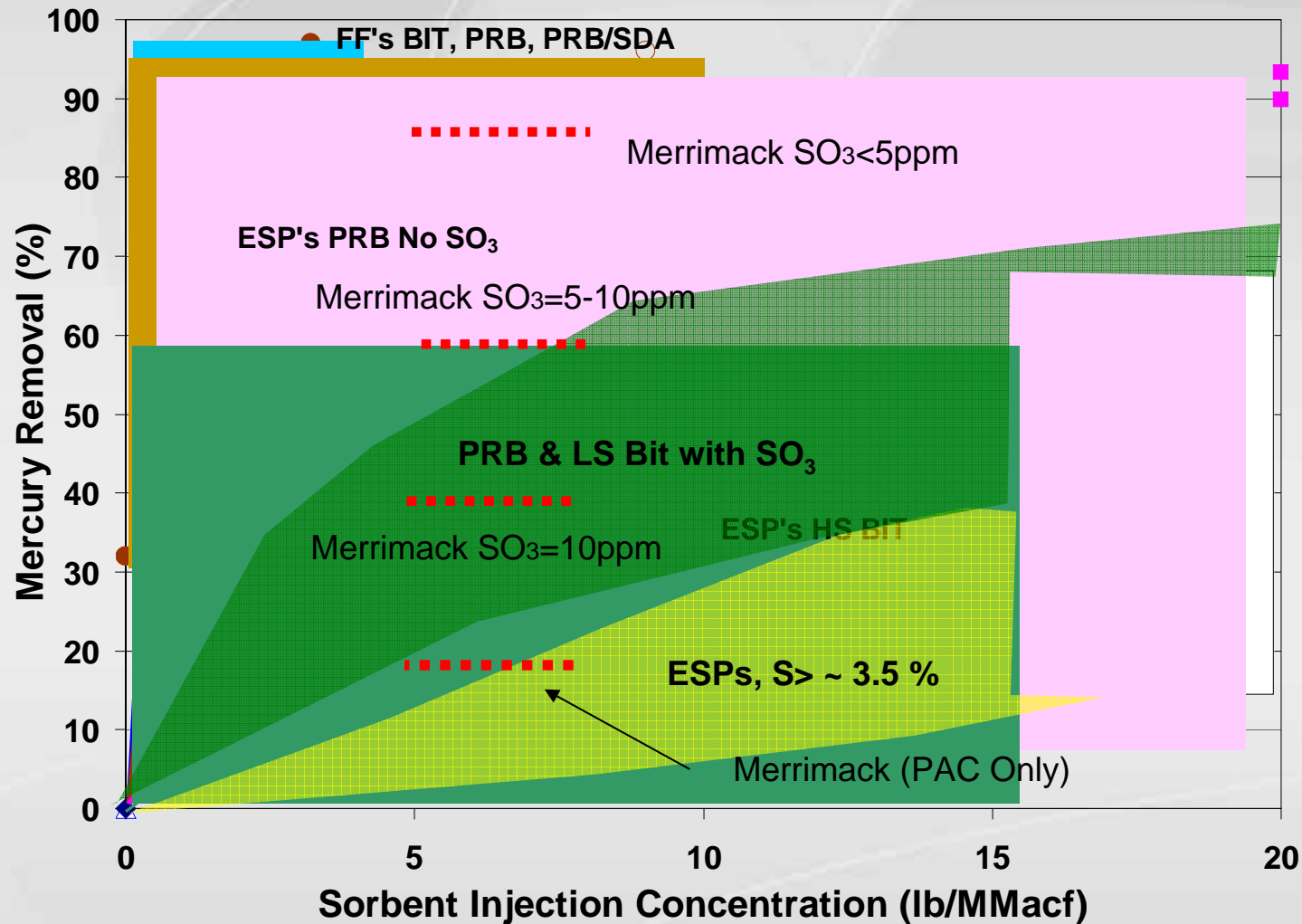
# PAC Injection Upstream of ESP PRB Coal with SO<sub>3</sub> Injection for FGC



# PAC Injection Upstream of ESP Med-High Sulfur Bituminous Coals



# Mercury Reduction Trends with ACI on FF's and ESPs



# Summary of Mercury Control with PAC

	<b>ESP</b>	<b>ESP w/SO<sub>3</sub>*</b>	<b>TOXECON</b>	<b>SDA+FF</b>
PAC Injection	5 lb/MMacf	5 lb/MMacf	2 lb/MMacf	2 lb/MMacf
Low S, Low Cl (PRB or ND lig)	B: 75- 95%	B: 40-91%	70-90%	B: 90-95%
LS, >50 ppm Cl	78 – 95%	40-91%	70-90%	B: 90-95%
LS Bit	55-70%	40-91%	70-90%	<i>70-95%</i>
LS Bit w/SCR	15-70%	NA	<i>50-90%</i>	<i>70-95%</i>
HS Bit	<15%	NA	NA	NA

NA: Not applicable or configuration unlikely

*Italics*: No data available

\* SO<sub>3</sub> from SO<sub>3</sub> injection

B: Bromine-treated PAC

# Questions?

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