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**Date:** 4/1/2010 2:13 PM  
**Subject:** Plant Washington Mercury Emissions Estimate  
**Attachments:** Mercury Emissions Calculation .xls

Dear Mr. Capp

On behalf of our client, Power4Georgians, LLC (P4G) please find attached a mercury emissions calculation for PRB coal at a removal efficiency of 90%. If you have any questions please give me a call at (770) 421-3335.

Sincerely,  
Justin Fickas  
Sr. Engineer  
MACTEC Engineering and Consulting, Inc.  
(770) 421-3335

**P4G - Plant Washington  
Mercury Emissions Calculation**

Coal Flow Rate	8300 MMBtu/hr / HHV of coal / 2000		488	tons/hr	100% PRB tph based on HHV of 8500 Btu/lb
	tons * 2000 = lb		976,471	lb/hr	
	lb/hr * 8760 hr =		8,553,882,353	lb/yr	100% capacity factor assumed
	Mercury (Hg) (ppm)		0.1034		Average PRB Coal Mercury Content
	Moisture (%)		29.61		Plant Washington Design Basis
	lb/yr * (1- % moisture) =		6021077788	lb/yr	
	Mercury lb/yr * ppm (Mercury) * 1/1E06 =		622.6	lb/yr	
	MACTEC BACT Removal Efficiency For 100% PRB Coal		90%		
	Mercury emissions lb/yr * (1 - removal eff.)		62.3	lb/yr	
	Mercury Limit lb/yr * 1/8760 hr/yr * 1/8300 MMBtu/hr =		0.86	x 10E-6 lb/MMBtu	
		At Full Load:	7.64	x 10E-6 lb/MW hr	