From: Brian Tracey <Brian_Tracey@genpower.net>
To: Peter Courtney <Peter.Courtney@dnr.state.ga.us>
CC: Tyneshia Tate <Tyneshia.Tate@dnr.state.ga.us>
Date: 6/14/2010 3:05 PM
Subject: RE: Yellow Pine Energy Company, SIP Application 19518,AIRS:06100001 - air dispersion modeling information
Attachments: YP Start Up Emissions Estimates.pdf

Pete:

Attached is the information you requested last week regarding the Yellow Pine Start-Up emission rates and stack parameters. You'll find the hourly CO and SO2 emission rates and related stack parameters in the attached pdf document. Please let me know if you have any further questions on this information.

Kind Regards,

Brian

Brian A. Tracey
Senior Project Engineer
GenPower Services, LLC
85 Wells Ave., Ste 300
Newton, MA 02459
Direct: (617) 340-4563
btracey@genpower.net

Cold Startup of Yellow Pine Energy Station Boiler

Startup Time (hours)	1	2	3	4	5	6	7
Biomass Heat Input (MMBtu/hr)	0	0	0	218	870	1,233	1,450
Oil Heat Input (MMBtu/hr)	127	254	381	508	0	0	0
Total Heat Input (MMBtu/hr)	127	254	381	725	870	1,233	1,450
Biomass Flow (tph)	0	0	0	24	95	135	158
Distillate Oil Flow (gal/hr)	919	1,839	2,758	3,678	0	0	0
Stack Exit Temp. (°F)	275	286	296	307	317	328	338
Velocity (ft/sec)	4	8	12	25	32	46	55
CO (lb/MMBtu)	0.149	0.149	0.149	0.149	0.149	0.149	0.149
CO Emissions (lbs/hr)	18.9	37.8	56.7	108.0	129.6	183.6	216.1
SO2 (lb/MMBtu)	0.002	0.002	0.002	0.014	0.014	0.014	0.014
SO2 Emissions (lbs/hr)	0.20	0.41	0.61	10.2	12.2	17.3	20.3