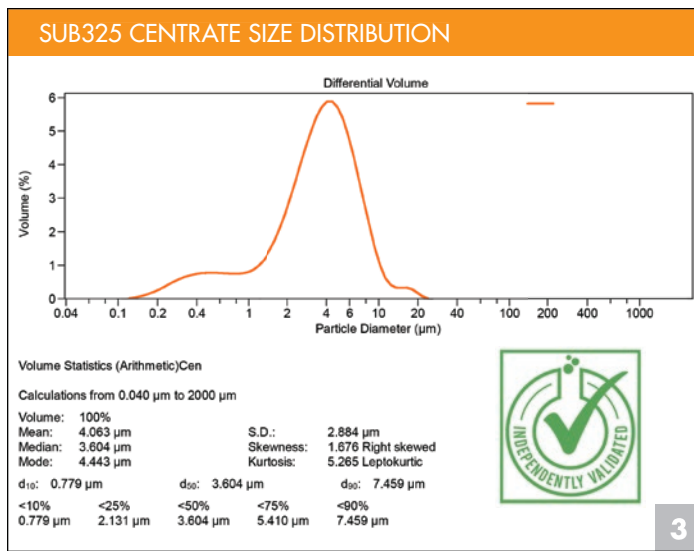
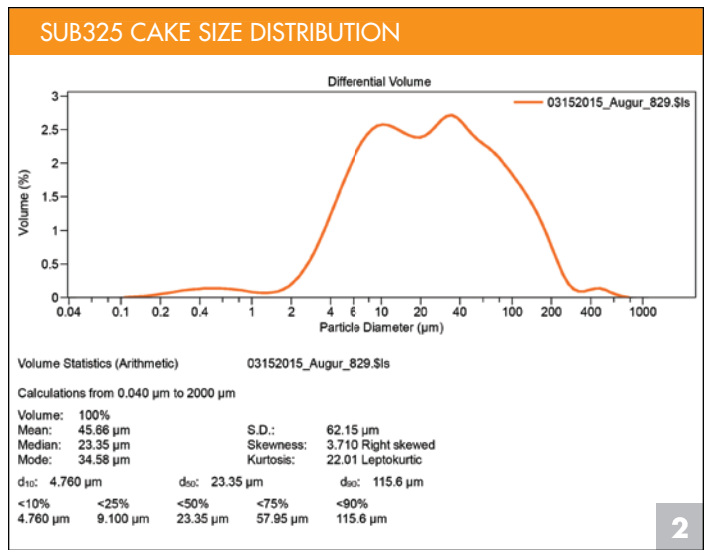
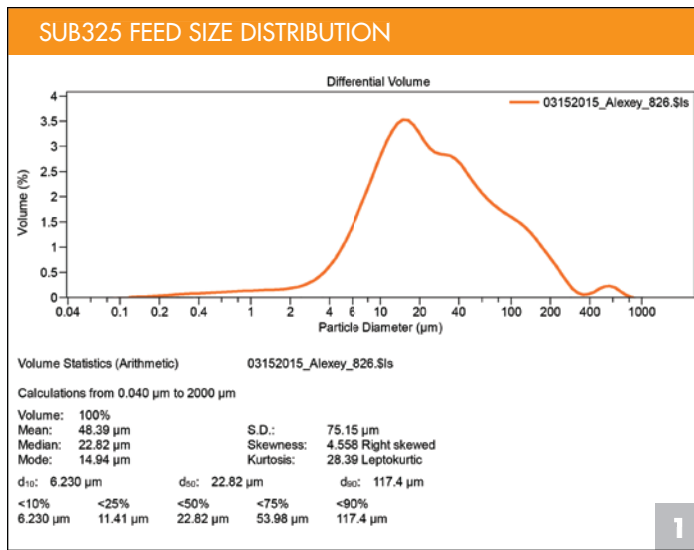


SUB325™ FINE COAL RECOVERY SYSTEM



Results of Trial at NAPP Operation

The results from our trial at the aforementioned NAPP operation, essentially our performance data, expressed as particle size distributions based upon the volume of the particles, is displayed below.

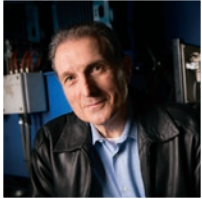


- 1 This is a particle size distribution of the feed slurry to the Somerset Sub325™ fine coal recovery system. The mean is 48.39 µm or approximately 300 mesh with a mode of 14.94 µm. A somewhat typical particle size distribution for the industry – no matter the coal type.
- 2 This is a particle size distribution of the product (cake) from the Somerset Sub325 fine coal recovery system. The mean is 45.66 µm or approximately 325 mesh with a mode of 34.58 µm. As you can see, not much difference. We are seeing this type of particle distribution as ‘typical’ in the industry – Met. Steam or other washed coals.
- 3 This is a particle size distribution of the centrate (or “clean” water) after exiting our Somerset Sub325 fine coal recovery system.

If you look at the very bottom of this chart, you will see, by 3rd party verification, the centrate is less than 0.5% solids.

This data shows not only are the solids less than 0.5%, but the particle size distribution has a mean of 4.1 µm or approximately 3,600 mesh with a mode of 4.4 µm or approximately 3,300 mesh. It has a d50 of 3.6µm and 90% of total solids are less than 7.5µm.

Results of Trial at NAPP Operation



“Years of work devoted to understanding the behavior of ultra-fine coal particles, combined with a singularly clever solid bowl design, culminated in the breakthrough of capturing low-moisture, minus 325 mesh coal.”

RICHARD TROIANO, CHIEF TECHNOLOGY OFFICER, SOMERSET COAL

SUB325 FINE COAL RECOVERY SYSTEM FEED									
Screen size	DRY ANALYSIS				CUMULATIVE DRY ANALYSIS				
	WT%	Ash%	Sul%	BTU	WT%	Ash%	Sul%	BTU	
Plus 28m	13.79	4.96	0.85	14,897	13.79	4.96	0.85	14,897	
28m x 100m	46.26	7.77	1.20	14,383	60.05	7.06	1.12	14,501	
100m x 325m	21.24	12.10	3.40	13,708	81.29	8.38	1.72	14,294	
minus 325m	18.71	13.55	2.08	13,251	100.00	9.35	1.78	14,099	

SUB325 FINE COAL RECOVERY SYSTEM CAKE									
Screen size	DRY ANALYSIS				CUMULATIVE DRY ANALYSIS				
	WT%	Ash%	Sul%	BTU	WT%	Ash%	Sul%	BTU	
Plus 28m	9.14	4.93	0.80	14,911	9.14	4.93	0.80	14,911	
28m x 100m	41.94	6.15	0.98	14,702	51.08	5.93	0.95	14,739	
100m x 325m	22.31	9.22	2.26	14,176	73.39	6.93	1.35	14,568	
minus 325m	26.61	11.19	1.74	13,774	100.00	8.06	1.45	14,357	