

Table 1a. In-situ Light-scattering PM CEMS Cost Time Table (CPMS back-up)

<u>Schedule</u>	<u>Major Item</u>	<u>Cost (\$1, 000)</u>
<u>Year Zero</u>		
- First quarter	Purchase 1-monitor	13
	Purchase data logger	20
	Preinstallation	20
	Install - shakedown	4
- Second quarter	1-Calibration Test	15
- Third quarter	1-Calibration Test	15
	Update Operating Parameters	10
- Fourth quarter	3-Calibration tests	15
- Annual	Other Up-front, Capital Costs	17
	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	140
	Adjusted Subtotal (*) =	120
<u>Years One through Four</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	ACA	2
Annual	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	19
<u>Year Five</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	RCA	9
	Recalibration (10% of 15k)	2
Annual	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	28

Years six and on: Repeat years one through five, above.

(*) = Adjusted Year Zero Subtotals include all capital costs minus any annual costs incurred in year zero.

Table 1b. In-situ Light-scattering PM CEMS Cost Time Table (redundant PM CEMS)

<u>Schedule</u>	<u>Major Item</u>	<u>Cost (\$1, 000)</u>
<u>Year Zero</u>		
- First quarter	Purchase 2-monitor	26
	Purchase data logger	20
	Preinstallation	20
	Install - shakedown	8
- Second quarter	1-Calibration Test	15
- Third quarter	1-Calibration Test	15
- Fourth quarter	3-Calibration tests	15
- Annual	Other Up-front, Capital Costs	17
	O&M (lump sum)	6
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	150
	Adjusted Subtotal (*) =	135
<u>Years One through Four</u>		
- First quarter	ACA	4
- Second quarter	ACA	4
- Third quarter	ACA	4
- Fourth quarter	ACA	4
- Annual	<u>O&M (lump sum)</u>	<u>6</u>
	Subtotal =	22
<u>Year Five</u>		
- First quarter	ACA	4
- Second quarter	ACA	4
- Third quarter	ACA	4
- Fourth quarter	RCA	9
	Recalibration (10% of 15k)	2
- Annual	<u>O&M (lump sum)</u>	<u>6</u>
	Subtotal =	29
<u>Years six and on:</u> Repeat years one through five, above.		

(*) = Adjusted Year Zero Subtotals include all capital costs minus any annual costs incurred in year zero.

Table 2. Beta-gage PM CEMS Cost Time Table

<u>Schedule</u>	<u>Major Item</u>	<u>Cost (\$1, 000)</u>
<u>Year Zero</u>		
- First quarter	Purchase one (1) monitor	46
	Purchase data logger	20
	Preinstallation	20
	Install - shakedown	6
- Second quarter	1-Calibration Test	15
- Third quarter	Update Operating Parameters	10
- Fourth quarter		
- Annual	Other Up-front, Capital Costs	17
	O&M (lump sum)	6
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	148
	Adjusted Subtotal (*) =	125
<u>Years One through Four</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	ACA	2
- Annual	O&M (lump sum)	6
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	22
<u>Year Five</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	RCA	9
	Recalibration (10% of 15k)	2
- Annual	O&M (lump sum)	6
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	31
<u>Years six and on:</u> Repeat years one through five, above.		

(*) = Adjusted Year Zero Subtotals include all capital costs minus any annual costs incurred in year zero.

Table 3. Extractive Light-scattering PM CEMS Cost Time Table

<u>Schedule</u>	<u>Major Item</u>	<u>Cost (\$1, 000)</u>
<u>Year Zero</u>		
- First quarter	Purchase one (1) monitor	66
	Purchase data logger	20
	Preinstallation	20
	Install - shakedown	6
- Second quarter	1-Calibration	15
- Third quarter	1-Calibration	15
- Fourth quarter	1-Calibration test	15
	Update Operating Parameters	10
- Annual	Other Up-front, Capital Costs	17
	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	195
	Adjusted Subtotal (*) =	175
<u>Years One through Four</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	ACA	2
- Annual	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	19
<u>Year Five</u>		
- First quarter	ACA	2
- Second quarter	ACA	2
- Third quarter	ACA	2
- Fourth quarter	RCA	9
	Recalibration (10% of 15k)	2
- Annual	O&M (lump sum)	3
	<u>Maintain CPMS</u>	<u>8</u>
	Subtotal =	28
<u>Years six and on:</u> Repeat years one through five, above.		

(*) = Adjusted Year Zero Subtotals include all capital costs minus any annual costs incurred in year zero.