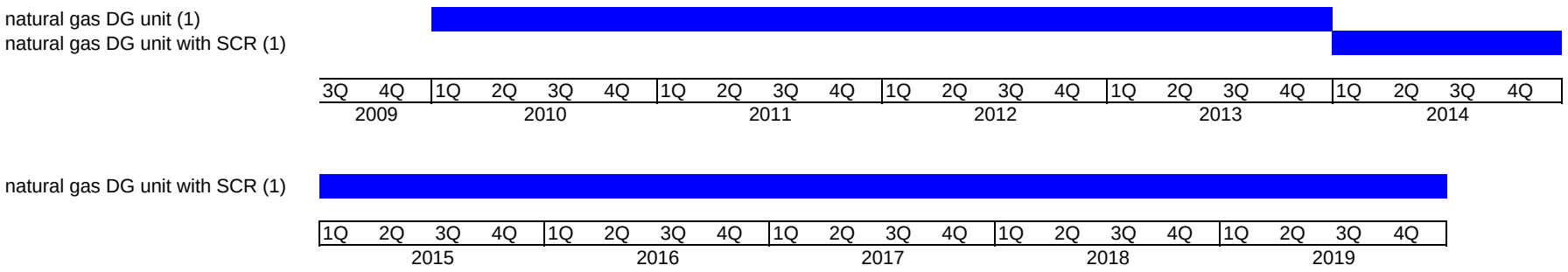
Supporting Calculations for Table 7F

	A	B	C	D	E	F	G	H	I
	Data				**Power**	**Basline**		**Post-Baseline**	
ship	visits	teu	hr/visit	MW	**MW-hr** (A x C x D)	**NOx Emissions***	**PM Emissions****	**NOx Emissions After Control*****	**PM Emissions After Control******
2014									
Golden Gate 1	4	6700	25	2.5	250	3.8	0.07	0.8	0.001
2017									
Golden Gate 2	4	6900	25	2.5	250	3.8	0.07	0.8	0.001
Golden Gate 3	3	4900	25	2.2	165	2.5	0.05	0.5	0.0005
Golden Gate 4	3	4900	25	2.2	165	2.5	0.05	0.5	0.0005
Golden Gate 5	3	4900	25	2.2	165	2.5	0.05	0.5	0.0005
					Total	**11.3**	**0.22**	**2.3**	**0.003**
2020									
Golden Gate 6	4	7200	25	2.9	290	4.4	0.08	0.9	0.001
Golden Gate 7	3	5500	25	2.3	172.5	2.6	0.05	0.5	0.0005
Golden Gate 8	3	5500	25	2.3	172.5	2.6	0.05	0.5	0.0005
Golden Gate 9	3	5500	25	2.3	172.5	2.6	0.05	0.5	0.0005
Golden Gate 10	2	5100	25	2.3	115	1.8	0.03	0.4	0.0003
Golden Gate 11	2	5100	25	2.3	115	1.8	0.03	0.4	0.0003
Golden Gate 12	1	4300	25	2.2	55	0.8	0.02	0.2	0.0002
Golden Gate 13	1	4300	25	2.2	55	0.8	0.02	0.2	0.0002
Golden Gate 14	1	7200	25	2.9	72.5	1.1	0.02	0.2	0.0002
					Total	**18.5**	**0.35**	**3.8**	**0.004**

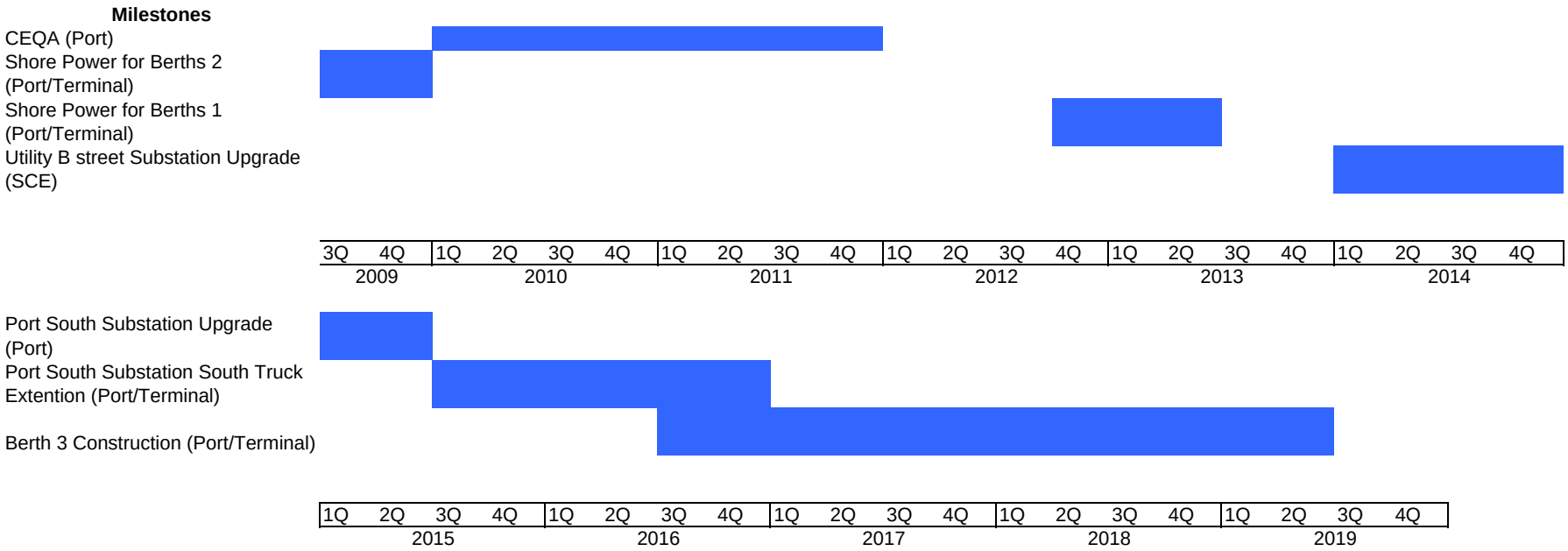
* = 13.9 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW
** = 0.25 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW
*** = 13.9 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW * 20 percent remaining emissions
**** = 0.25 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW * 1 percent remaining emissions

Gantt chart for Terminal X DG application

Milestones



Gantt chart for Terminal X Shore Power Construction Schedule



Supporting Calculations for Table 5G

	A	B	C	D	E	F	G	H	I	J	K	L
	Data				Power	Basline		Post-Baseline				
ship	visits	teu	hr/visit	MW	MW-hr (A x C x D)	NOx Emissions*	PM Emissions**	NOx Emissions After Control-Ship Engines***	PM Emissions After Control-Ship Engines****	DG NOx Emissions *****	Net NOx Emissions (H+J)	Net PM Emissions (I)
2010												
Best 1	10	5600	65	2.3	1495	22.9	0.41	1.10	0.02	3.20	4.3	0.02
2012												
Best 1	10	5600	65	2.3	1495	22.9	0.41	1.10	0.02	3.20	4.3	0.02
2014												
Best 2	10	6200	64	2.5	1600	24.5	0.44	1.20	0.02	0.30	1.5	0.02
Best 3	10	3300	51	1.9	969	14.8	0.27	0.90	0.02	0.20	1.1	0.02
					total	**39.3**	**0.71**			**total**	**2.6**	**0.04**
2017												
Best 2	10	6200	64	2.5	1600	24.5	0.44	1.20	0.02	0.30	1.5	0.02
Best 3	10	3300	51	1.9	969	14.8	0.27	0.90	0.02	0.20	1.1	0.02
Best 4	8	3300	51	1.9	775.2	11.9	0.21	0.70	0.01	0.20	0.9	0.01
Best 5	6	4000	56	2.2	739.2	11.3	0.20	0.60	0.01	0.20	0.8	0.01
					total	**62.5**	**1.12**			**total**	**4.3**	**0.06**
2020												
Best 2	10	6200	64	2.5	1600	24.5	0.44	1.20	0.02	0.30	1.5	0.02
Best 3	10	3300	51	1.9	969	14.8	0.27	0.90	0.02	0.20	1.1	0.02
Best 4	7	4000	56	2.2	862.4	13.2	0.24	0.70	0.01	0.20	0.9	0.01
Best 5	8	3300	51	1.9	775.2	11.9	0.21	0.70	0.01	0.20	0.9	0.01
Best 6	6	4000	56	2.2	739.2	11.3	0.20	0.60	0.01	0.20	0.8	0.01
Best 7	6	3300	51	1.9	581.4	8.9	0.16	0.50	0.01	0.10	0.6	0.01
Best 8	6	3300	51	1.9	581.4	8.9	0.16	0.50	0.01	0.10	0.6	0.01
					total	**93.5**	**1.68**			**total**	**6.4**	**0.09**

* = 13.9 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW
** = 0.25 gm-kW/hr / 454 gm/lb / 2000 lb /ton * E MW-Hr * 1000 kW/MW
*** = 13.9 gm-kW/hr / 454 gm/lb / 2000 lb /ton * A visits * 3 hr/visit * D MW * 1000 kW/MW
**** = 0.25 gm-kW/hr / 454 gm/lb / 2000 lb /ton * A visits * 3 hr/visit * D MW * 1000 kW/MW
***** = 2 gm-kW/hr / 454 gm/lb / 2000 lb /ton * A visits * (c-2) hr/visit * D MW * 1000 kW/MW