

Appendix C

Commissioning Schedule

Table B-4 (Revised December 4, 2015)
 Puente Power Project
 Gas Turbine Commissioning Schedule

Day	Activity	Duration (hr)	GT Load (%)	No. of GT Shutdowns	Daily Fuel Consumption (MMSCF-Hr/Day)	Daily Energy Production (MWh)	Total Emissions										Calculated Hourly Emissions (lbs/hr)									
							NOx (lbs)	CO (lbs)	ROC (lbs)	PM10 (lbs)	SOx (lbs)	SCR (Y/N)	NOx	CO	ROC	PM10	SOx									
1	GT Testing (1st Fire, FSNL)	8	0	1	4.8	0.0	1076.5	15783.7	1312.9	85.2	9.9	N	134.6	1973.0	164.1	10.1	5.4									
2	GT Testing (FSNL, Excitation Test, Dummy Synch Checks)	8	0-50	10	13.9	1.0913	1076.5	15783.7	1312.9	85.2	9.9	N	134.6	1973.0	164.1	10.1	5.4									
3	GT Testing / Initial 4 Hour Run / Oversight Testing	8	100	10	27.6	2.7500	1560.2	6163.1	544.6	86.9	28.5	N	195.0	770.4	68.1	10.1	5.4									
4	Base Load Run-In / Lean / Lean for Strainer Cleanliness	10	0-50	10	13.9	1.0913	2443.7	830.2	1027.8	111.2	56.6	N	244.4	83.0	10.8	10.1	5.4									
5	GT Testing / DLN Tuning	8	0-50	10	13.9	1.0913	1560.2	6163.1	544.6	86.9	28.5	N	195.0	770.4	68.1	10.1	5.4									
6	GT Testing / DLN Tuning	8	0-50	10	13.9	1.0913	1560.2	6163.1	544.6	86.9	28.5	N	195.0	770.4	68.1	10.1	5.4									
7	GT Testing / DLN Tuning	8	50-75	10	18.3	1.8322	1174.0	498.5	58.0	88.3	37.4	N	146.8	62.3	7.3	10.1	5.4									
8	GT Testing / DLN Tuning	8	50-75	10	18.3	1.8322	1174.0	498.5	58.0	88.3	37.4	N	146.8	62.3	7.3	10.1	5.4									
9	GT Testing / DLN Tuning	8	75-100	10	22.4	2.2148	1970.8	726.5	94.6	90.0	45.9	N	246.3	90.8	11.8	10.1	5.4									
10	GT Testing / DLN Tuning	8	75-100	10	22.4	2.2148	1970.8	726.5	94.6	90.0	45.9	N	246.3	90.8	11.8	10.1	5.4									
11	No Operation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N	0.0	0.0	0.0	0.0	0.0									
12	Load Catalyst	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N	0.0	0.0	0.0	0.0	0.0									
13	Load Catalyst	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N	0.0	0.0	0.0	0.0	0.0									
14	Load Catalyst	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N	0.0	0.0	0.0	0.0	0.0									
15	Load Catalyst	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N	0.0	0.0	0.0	0.0	0.0									
16	GT Base Load / Commissioning of Ammonia system	16	50-100	10	43.3	4.3556	457.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
17	GT Load Test	12	100	10	32.9	3.2852	362.8	589.4	121.0	132.4	67.3	Y	30.2	49.0	10.1	10.1	5.4									
18	No Operation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
19	Install Emissions Test Equipment	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
20	Emissions Tuning / Dirt Test	12	50-100	10	32.9	3.2852	362.8	589.4	121.0	132.4	67.3	Y	30.2	49.0	10.1	10.1	5.4									
21	Emissions Tuning / Dirt Test	12	50-100	10	32.9	3.2852	362.8	589.4	121.0	132.4	67.3	Y	30.2	49.0	10.1	10.1	5.4									
22	Pre-performance Testing / Dirt Test	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
23	Pre-performance Testing / Dirt Test	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
24	Pre-performance Testing / Dirt Test	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
25	Pre-performance Testing / Source Testing	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
26	Pre-performance Testing / Source Testing	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
27	Pre-performance Testing / Source Testing	16	100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
28	Pre-performance Testing / Source Testing	16	50-100	10	43.3	4.3556	437.4	680.5	147.3	174.8	88.7	Y	28.6	42.5	9.2	10.1	5.4									
29	Remove Emissions Test Equipment	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
30	Torque Exhaust Bolts & Remove A179 Strainers	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
31	Torque Exhaust Bolts & Remove A179 Strainers	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
32	Torque Exhaust Bolts & Remove A179 Strainers	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
33	Water Wash & Performance preparation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
34	Water Wash & Performance preparation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
35	Water Wash & Performance preparation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
36	Performance/Reliability Testing	24	100	0	64.4	6.5253	654.5	655.7	167.9	259.1	131.8	Y	27.3	27.3	7.0	10.1	5.4									
37	Performance/Reliability Testing	24	100	0	62.7	6.4243	571.5	697.7	192.9	255.9	128.3	Y	23.8	29.1	7.6	10.1	5.4									
38	No Operation	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Y	0.0	0.0	0.0	0.0	0.0									
39	SCE 72 Hour Test - Day 1	24	50-100	0	64.4	6.5253	654.5	655.7	167.9	259.1	131.8	Y	27.3	27.3	7.0	10.1	5.4									
40	SCE 72 Hour Test - Day 2	24	50-100	0	62.6	6.4223	567.5	552.7	157.9	254.4	128.2	Y	23.6	29.1	6.6	10.1	5.4									
41	SCE 72 Hour Test - Day 3	24	50-100	1.0	62.7	6.4243	571.5	697.7	192.9	255.9	128.3	Y	23.8	29.1	7.6	10.1	5.4									
Total GT operation hours =							366	23,393.9	63,485.9	7,038.4	3,976.9	1,890.8	max =	246.3	1,973.0	164.1	10.1	5.4								
								11.7	31.7	3.5	2.0	0.9														