

DOCKETED

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| Filer: | Raquel Rodriguez |
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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-HHV) | 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 | 1,973.0 | 164.1 | 10.1 | 5.4 |
| 2 | GT Testing (FSNL, Excitation Test, Dummy Synch Checks) | 8 | 0 | 1 | 4.8 | 0.0 | 1076.5 | 15783.7 | 1312.9 | 85.2 | 9.9 | N | 134.6 | 1,973.0 | 164.1 | 10.1 | 5.4 |
| 3 | GT Testing / Initial 4 Hour Run / Overspeed Testing | 8 | 0-50 | 1.0 | 13.9 | 1,091.3 | 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 | 100 | 1.0 | 27.6 | 2,750.0 | 2443.7 | 830.2 | 107.8 | 111.2 | 56.6 | N | 244.4 | 83.0 | 10.8 | 10.1 | 5.4 |
| 5 | GT Testing / DLN Tuning | 8 | 0-50 | 1.0 | 13.9 | 1,091.3 | 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 | 1.0 | 13.9 | 1,091.3 | 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 | 1.0 | 18.3 | 1,652.2 | 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 | 1.0 | 18.3 | 1,652.2 | 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 | 1.0 | 22.4 | 2,214.8 | 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 | 1.0 | 22.4 | 2,214.8 | 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 | 0.0 | N | | | | | |
| 12 | Load Catalyst | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N | | | | | |
| 13 | Load Catalyst | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N | | | | | |
| 14 | Load Catalyst | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N | | | | | |
| 15 | Load Catalyst | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N | | | | | |
| 16 | GT Base Load / Commissioning of Ammonia system | 16 | 50-100 | 1.0 | 43.3 | 4,355.6 | 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 | 1.0 | 32.9 | 3,285.2 | 362.8 | 588.4 | 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 | 0.0 | Y | | | | | |
| 19 | Install Emissions Test Equipment | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 20 | Emissions Tuning / Drift Test | 12 | 50-100 | 1.0 | 32.9 | 3,285.2 | 362.8 | 588.4 | 121.0 | 132.4 | 67.3 | Y | 30.2 | 49.0 | 10.1 | 10.1 | 5.4 |
| 21 | Emissions Tuning / Drift Test | 12 | 50-100 | 1.0 | 32.9 | 3,285.2 | 362.8 | 588.4 | 121.0 | 132.4 | 67.3 | Y | 30.2 | 49.0 | 10.1 | 10.1 | 5.4 |
| 22 | Pre-performance Testing / Drift Test | 16 | 100 | 1.0 | 43.3 | 4,355.6 | 457.4 | 680.5 | 147.3 | 174.8 | 88.7 | Y | 28.6 | 42.5 | 9.2 | 10.1 | 5.4 |
| 23 | Pre-performance Testing / Drift Test | 16 | 100 | 1.0 | 43.5 | 4,386.6 | 469.4 | 616.5 | 140.3 | 174.8 | 89.2 | Y | 29.3 | 38.5 | 8.8 | 10.1 | 5.4 |
| 24 | Pre-performance Testing / Drift Test | 16 | 100 | 1.0 | 43.5 | 4,386.6 | 469.4 | 616.5 | 140.3 | 174.8 | 89.2 | Y | 29.3 | 38.5 | 8.8 | 10.1 | 5.4 |
| 25 | RATA / Pre-performance Testing / Source Testing | 16 | 100 | 1.0 | 43.3 | 4,355.6 | 457.4 | 680.5 | 147.3 | 174.8 | 88.7 | Y | 28.6 | 42.5 | 9.2 | 10.1 | 5.4 |
| 26 | RATA / Pre-performance Testing / Source Testing | 16 | 100 | 1.0 | 43.5 | 4,386.6 | 469.4 | 616.5 | 140.3 | 174.8 | 89.2 | Y | 29.3 | 38.5 | 8.8 | 10.1 | 5.4 |
| 27 | Pre-performance Testing / Source Testing | 16 | 100 | 1.0 | 43.5 | 4,386.6 | 469.4 | 616.5 | 140.3 | 174.8 | 89.2 | Y | 29.3 | 38.5 | 8.8 | 10.1 | 5.4 |
| 28 | Pre-performance Testing / Source Testing | 16 | 50-100 | 1.0 | 43.5 | 4,386.6 | 469.4 | 616.5 | 140.3 | 174.8 | 89.2 | Y | 29.3 | 38.5 | 8.8 | 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 | 0.0 | Y | | | | | |
| 30 | Torque Exhaust Bolts & Remove A179 Strainers | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 31 | Torque Exhaust Bolts & Remove A179 Strainers | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 32 | Torque Exhaust Bolts & Remove A179 Strainers | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 33 | Water Wash & Performance preparation | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 34 | Water Wash & Performance preparation | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 35 | Water Wash & Performance preparation | 0 | 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | Y | | | | | |
| 36 | Performance/Reliability Testing | 24 | 100 | 0.0 | 64.4 | 6,525.3 | 654.5 | 655.7 | 167.9 | 258.1 | 131.8 | Y | 27.3 | 27.3 | 7.0 | 10.1 | 5.4 |
| 37 | Performance/Reliability Testing | 24 | 100 | 1.0 | 62.7 | 6,424.3 | 571.5 | 697.7 | 182.9 | 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 | 0.0 | Y | | | | | |
| 39 | SCE 72 Hour Test - Day 1 | 24 | 50-100 | 0.0 | 64.4 | 6,525.3 | 654.5 | 655.7 | 167.9 | 258.1 | 131.8 | Y | 27.3 | 27.3 | 7.0 | 10.1 | 5.4 |
| 40 | SCE 72 Hour Test - Day 2 | 24 | 50-100 | 0.0 | 62.6 | 6,422.3 | 567.5 | 552.7 | 157.9 | 254.4 | 128.2 | Y | 23.6 | 23.0 | 6.6 | 10.1 | 5.4 |
| 41 | SCE 72 Hour Test - Day 3 | 24 | 50-100 | 1.0 | 62.7 | 6,424.3 | 571.5 | 697.7 | 182.9 | 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 | | | | | | |