**LOUISIANA PUBLIC SERVICE COMMISSION**
**FOLLOW-UP QUESTIONS TO ELECTRIC UTILITES ON WINTER STORM EVENT**
**RESPONSES OF CLECO POWER LLC**
**Item #2**

| UNIT | DERATE/OUTAGE | CAUSE |
|---|---|---|
| Acadia Unit 1 | 592 MW to 555 MW (-37MW) | Freezing instrumentation relating to gas flow on the Heat Recovery Steam Generator 12 duct burner skid |
| Nesbitt 1 | Outage | Frozen pilot valves in the actuators for the main and ignitor gas trip valves closed the trip valves tripping the unit offline. Moisture in the instrument air supply froze due to extremely low temperatures. |
| Madison 3 | Outage | Frozen main steam flow transmitters created an invalid main steam flow measurement tripping the unit offline. Moisture froze in the transmitter drain lines due to extremely low temperatures. |
| Coughlin Unit 7-2 | Restricted to 230MW | Elevated exhaust pressure believed to be caused by excessive mass flow through the combustion turbine due to the extreme cold/dense air from the extremely low temperatures and the duration thereof. However, the root cause of the high exhaust pressure trip on 7-2 CT has not been confirmed and although higher than normal mass flow through the turbine was experienced due to extreme cold/dense air, the MW output had not yet reached its programmed limits. |
| Coughlin Unit 7-1 | Outage | The Steam Turbine tripped due to loss of feedwater flow and 7-1 Combustion Turbine was subsequently shut down. |
| Coughlin Unit 6 | Restricted to 170MW | Manual operation of the deaerator and hotwell level controls necessitated by the freezing deaerator level sensing lines. |
| Coughlin Unit 6 | Outage | The manual trip was initiated due to a suspected severe steam leak. However, it was determined that a pressure relief valve had opened due to high main steam pressure resulting from frozen throttle pressure transmitter sensing lines. |
| Teche 3 | Restricted to 65MW | Excessively low water supply from Water District 4 feeding the plant. The unit was requiring more condensate than what was being delivered by the district. The unit was operated at reduced pressure and load to conserve water. The restriction was raised to 90 NMW for 14.35 hours when water supply pressure increased. |
| Teche 3 | Restricted to 300MW | Control valve #12 in the ANR/CGT gas yard not switched fully over to remote control. |
| Teche 3 | Outage | Unit tripped offline on due to high vibration on turbine bearing #1. |
| Teche 4 | Outage | Fuel gas regulator on the fuel conditioning skid not maintaining proper gas pressure for base load. |
| St. Mary Clean Energy Center | Outage | Offline since late January due to the both boiler feed pump issues. This was an unplanned, forced outage of the unit. |
| Dolet Hills | Restricted by various amounts | Lignite frozen in the fuel silos due to the extremely low temperatures |