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March 16, 2006

Michael P. Halpin, P.E. DEP/DARM North Permitting Section Division of Air Resource Management 2600 Blair Stone Road MS 5500 Tallahassee, Florida 32399-2400

BUREAU OF AIR REGULATION

Re:

Crystal River Plant – Modular Cooling Towers Draft Construction Permit

Comments

Dear Mr. Halpin:

Thank you very much for processing the cooling tower permit. Progress Energy has the following comments on the draft construction permit:

1. Section III – Emissions Units Specific Conditions – item number 7 requires Progress Energy to equip the modular cooling towers with a circulating water flow meter and maintain flow records for each calendar month. Due to the problems of maintaining a flow monitor in a salt water environment Progress Energy would prefer to calculate circulating water flow based on hours of operation of each pump and a nominal flow value per hour. This is the method we use in our current permit for the helper cooling towers (EU Number 13 Subsection F).

The following is a description of the circulating water system – please refer to the attached "modular cooling tower numbering scheme". There are 67 modular cooling tower units shown in the drawing:

Bank A – A1 through A15

Bank B – B1 through B22

Bank C - C1 through C15

Bank D - D1 through D15

The pumps that supply circulating water flow are is follows:

- 3 North Pumps (P-A1 through P-A3) The North Pumps supply circulating water flow to the modular cooling towers in Bank A.
- 24 South Pumps (P-B1 to P-B13 and P-D1 to P-D11) The South Pumps supply circulating water flow to the modular cooling towers in Banks B and D. Note the pumps are color coded the blue pumps (P-B1 through P-B13) will supply circulating water flow to Bank B. The pink pumps (P-D1 through P-D11) will supply circulating water flow to Bank D.

• The circulating water for Bank C will be supplied by the existing helper cooling tower. Currently, there are four helper cooling towers with nine cells in each tower for a total of 9 X 4 = 36 cells. Excess water from the fourth (the existing cooling tower furthest to the west) cooling tower will supply circulating water to bank C.

We propose the following flow rates:

North Pumps (total flow)
South Pumps (total flow)
45 kgpm (2,700 kgph)
96 kgpm (5,760 kgph)

• Bank C will receive circulating water flow from the existing cooling tower system (HCT # 4). If any of the fans in cells C-1 through C-15 operate, Progress Energy will report a circulating water flow of 39 kgpm (2,340 kgph).

Accordingly we would appreciate item number 7 to read as follows:

7. <u>Circulating Water Flow:</u> Circulating water flow will be measured by monitoring the hours of operation of each circulating water pump. For each hour of operation each north pump will flow 15 kgpm (900 kgph). For each hour of operation each south pump will flow 4 kgpm (240 kgph).

The fans in bank C1 through C15 will be monitored for operation. If any of the fans are operating in those cells, the circulating water flow will be 39 kgpm (2,340 kgph).

Partial hours of operation will be prorated. Records of the circulating water flow will be maintained each calendar month of operation.

2) Section III – Emissions Units Specific Conditions – item number 3 requires that Progress Energy maintain the cooling tower circulating water flow on a twelve month rolling basis. As the cooling towers will predominantly operate during the summer months, Progress Energy would prefer to maintain records of the circulating water flow on a calendar twelve month basis. This will ease the record keeping requirement.

If you have any questions, please contact me at (727) 820-5295. Thank you very much for processing the application.

Best Regards.

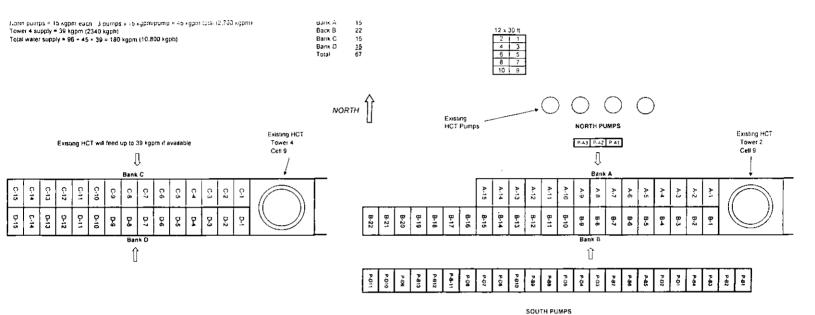
Dave Meyer, P.E.

Senior Environmental Specialist

XC: Bernie Cumbie

Scott Osbourn, Golder

Attachment



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