

**Sheplak, Scott**

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**From:** Harman, Alice [Harman@epchc.org]  
**Sent:** Monday, January 09, 2006 1:14 PM  
**To:** Sheplak, Scott  
**Cc:** Zhu, Roger  
**Subject:** HCRR

Scott,

Attached are the comments on HCRR you request by today. Thank-you for allowing us to submit information. I will not forward a hard-copy.

Sincerely,  
Alice



4. Volume III, Page 3-1, indicates that the MWC has a nominal capacity of 660 tons per day. The AC Application, Page 16, indicates a maximum incineration rate of 600 ton/day. Please explain and clarify the differences between the “nominal” and “maximum” capacity. Furthermore, what is the new boiler steam flow rate in term of lb/hr and how does it correlate with the maximum incineration rate. Please provide calculation to show the quantity of steam/heat is generated by amount of waster incinerated with specified temperature and pressure.
5. Volume III, Pages 2-20, the applicant has requested that the VOC limit cited for the existing Unit Nos. 1, 2 and 3 be deleted from the Title V permit, and that no VOC limit be set for the proposed Unit No. 4. According to Volume III, Page 4-3, the equivalent annual VOC emissions rate for the Unit No. 4 is 12 TPY, which exceeded the permit threshold. Is the estimated 12 TPY a potential to emit (PTE) VOC for the new unit? We consider that a calculation for the PTE of VOC needs to be submitted and the VOC emissions for each unit and facility-wide should be limited.
6. Volume I, Pages 2-83, Noise Baseline Data Summary, the one-minute equivalent sound levels (Leq) are provided in comparison with the Hillsborough County Noise Criteria Sound Level Limit (dBA). Please be aware of that Sound Level Limits in the Rules of EPCHC, Chapter 1-10.03, are maximum allowable sound level limits on an instantaneous basis. Please provide noise level data in accordance with the sound level limits specified in the Rules of EPCHC under different categories, i.e., residential, commercial, or industrial.
7. The estimated NO<sub>x</sub> emissions from the Unit No. 4 are 256.1 TPY, which is more than 6 times of the PSD significant emission rate of 40 TPY. The NO<sub>x</sub> emissions are proposed to be controlled by using SNCR/FGR with a stack emission limit of 110 ppm<sub>dv</sub>. The BACT evaluation is based on the permit limits of Lee County MWC, which is identical to the HCRR-MWC. The proposed NSCR control efficiency is from 35 to 60%, however, the 110 ppm<sub>dv</sub> stack emission limit is determined based on 59% of NSCR control efficiency, which appeared to rely on a “best performance” of the SNCR. As indicated in the application, SCR has not been applied to MWCs in the U.S. The SCR control efficiency for NO<sub>x</sub> has been ranged from 50 to 90%, and a stack NO<sub>x</sub> emission limit can be decreased to 70 ppm<sub>dv</sub>. As indicated in the application after comparing with the SNCR and SCR control technologies, the SNCR will remove 324 TPY of NO<sub>x</sub>, and SCR will remove 405 TPY of NO<sub>x</sub>. We solely understand the economic and energy impact by using SCR as an alternative control technology, however, for the environmental impact, we highly recommend SCR with FGR as BACT for the Unit No. 4.