

Winget, Leon

Case # 00-243-EL-BGN

From: thomas_webb@aep.com
Sent: Thursday, June 29, 2000 9:07 AM
To: Winget, Leon
Subject: Re: Question: - Cleaning of Facility

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Yes there will be both on-line and off-line washing of the compressor blades. These blades are in the first stages of the combustion turbine rotor where the inlet air is compressed prior to moving into the combustion portion of the rotor. The combustion stage will not be washed, just the air compressor stages.

The on-line washing will result in all of the demineralized wash solution being evaporated with no resulting discharge of wastewater. The off-line washing will generate a wastewater consisting of demineralized water and the "soap" solution that GE sells. The wash water generated will be a process waste and the concentrations of pollutants will primarily depend on what is in the inlet air in the way of pollutants. Out in the country it will probably just be small particles of dirt that get past the inlet air filters. The inlet air filters will be oil impregnated and sometimes there will be some light oil residue that deposits on the compressor blades, so there could be some small amounts of oil in the wash water.

The "soap" solution is aspirated into the demineralized water and the rotor is allowed to set for about 20 minutes, then the rotor portion is rinsed with demineralized water. All of the washwater that is generated in this way will be collected and stored in an underground tank of about 5,000 gallons for periodic pumpout by a licensed waste hauler. The waste hauler will dispose of the wastewater off-site in the appropriate manner. The off-site treatment by the contracted waste hauler will be determined by the batch test results. The washing is not performed very often so there won't be an issue of heavy truck traffic leaving the site with wash water. The buried tank will be of fiberglass or polyethylene construction most likely.

Thanks for the information on the noise. We are not aware of any intervenor that will raise noise as an issue for National but as you point out it is not over yet. If some are being held to the L90 that will be very expensive and there will be challenges on how that can even be done. Going below the L90 is hard to imagine. Seems one would need a "negative noise generator".

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