

Green Tier Application – Attachment 2

IV. Environmental Performance.

Wastewater Pretreatment Notification

Professional Plating Inc. (PPI) has been and is currently on a bi-annual data submission of wastewater effluent to the Wisconsin DNR. We currently hold three sampling points in which 24 hour monitoring is done twice per year. Hydrite Inc. is our pretreatment chemical supplier of coagulants and polymers. Hydrite is onsite quarterly to perform audits to verify system compliance and to take water samples to test for total zinc and total chromium.

We have three zinc plating lines running two shifts five days a week. Since 2004, our total zinc effluent averages have been as followed:

2004 - .55 mg/L

2005 - .32 mg/L

2006 – 1.13 mg/L

2007 - .643 mg/L

We are presently working on expanding our plant by 42,000 square feet. We are also planning to put in a new state of the art barrel plating line by the end of 2008. This new line will be a direct replacement of our current barrel plating line that has been in operation since 1979. We have engineered the new plating line to greatly reduce chemical usage by decreasing chemical carryover throughout the process. This will have a direct impact on the amount of zinc in our rinse waters. Calendar 2008 will be a baseline, with our goal to maintain total zinc discharges of under 1.0 mg/L. We are committed and will continue to work with our pretreatment suppliers to improve our zinc removal capabilities.

Hazardous Waste Reduction

We have been classified as a hazardous waste generator of F019 since 2000. In December, 2001 we invested \$1.5 million dollars in a state of the art waste treatment facility. With the installation of two separate wastewater treatment systems, we have the capability to separate the hazardous wastewater outfalls from the non-hazardous. The direct economic impact from the previous year was as followed:

- \$65,000 savings in total operating expenses
- Chemical usage decreased by 11%
- Labor decreased by 46%
- Hazardous waste generation decreased by 75%

Calendar 2008 will be a baseline as we are aggressively working with the EPA and Scientific Control Consulting Laboratory, Chicago IL, to petition to de-list the F019 waste. This process has been ongoing for two years and we are to the point where our sampling plan has been approved. Our first sampling will take place by the end of February 2008. Our estimated total cost to petition to de-list will be \$37,000. We are confident and targeting that by the middle of 2009, the EPA will grant our petition. Thus eliminating Professional Plating Inc as a hazardous waste generator. Any new processes added in the future will be reviewed so we do not revert back to generator status.

VOC Emissions

We are not required to hold an air permit. We monitor our monthly VOC emissions and have made progress at reducing them.

2004 – 634 lbs/month

2005 – 562 lbs/month

2006 – 587 lbs/month

2007 – 198 lbs/month

As you can see we have reduced our emissions by over 65% in four years!

Some of the changes and tools that we used to manage the gains are as followed:

- In 2006 we changed our acrylic paint resin that has 33% less VOC's than the previous resin.
- We monitor our paint bath twice per day so no unneeded chemicals are added.
- The epoxy paint adds are done on an auto feed to further enhance chemical use efficiency.
- Our suppliers are in quarterly to review processes and make enhancement changes if need be.

All of these proactive measures have had a very positive impact on the environment. We will continue to track to reduce further emissions in the future.

Stormwater Tier 2 Permit

Professional Plating Inc has held a WPDES Stormwater Tier 2 Discharge Permit since 2005. We currently have four outfalls that fall into the requirements of the permit. Calendar 2008 will be a baseline date in which with our expansion plans will eliminate two of the outfalls. We are moving to create a covered storage area for these outfalls to apply for non-exposure by November 2008.