

Over the past 3 years, working with the Metal Finishing Strategic Goals Program, the NMFRC has developed and honed a technique that can be applied to your shop. This methodology shows mathematically, how your shop compares to others. You can use this information to identify problem areas and save money. Our tool: <u>Benchmarking</u> <u>Metal Finishing</u>.

The NMFRC has collected data from hundreds of metal finishing companies of all types and sizes across the U.S. that includes both job and captive shops. Using this extensive database and our mathematical models, the NMFRC can generate a detailed benchmarking report for any metal finisher.

Benchmarking is a service that we provide <u>free of charge</u>. Companies involved with the Strategic Goals Program automatically are enrolled in this service. Other U.S. companies are also welcome to take part. To participate, you provide some basic data. Your data are entered into our model and we generate and mail to you a customized benchmarking report. This report will clearly show you where potential operating cost savings exist. If you have an environmental management system (EMS) or are considering implementing one, the benchmarking report can also be used to help track your progress.

Attached is the benchmarking data form. Please complete the form and mail (or fax) it by October 21, 2002 to:

NMFRC Technical Offices 10507 Walter Thompson Drive Vienna, VA 22181

FAX: 703-255-2248

If you have any questions, contact George Cushnie via email (<u>Geoc@nmfrc.org</u>) or by phone (703-255-2240).



I. Contact and Company Information

Your Name:			e-mail:	
Company Name:			Phone:	
Company Address:			FAX:	
City, State Zip:				
Type of Facility:	() Job Shop	() Captive Shop		

II. Accounting for Changes in Production

Please provide data for each production factor.

2001	
\$	
ľ	nrs.
	\$

*Do not count sales and administrative staff, only persons working directly in the metal finishing shop.

III. Water and Wastewater

	2001			
Does your facility discharge any metal finishing process wastewater? If no, go to Part IV.	()Yes ()No			
Volume of metal finishing process wastewater discharged:	gal.			
Average concentration of metals in wastewater discharge:				
Cadmium	mg/l			
Chromium	mg/l			
Copper	mg/l			
Cyanide	mg/l			
Lead	mg/l			
Nickel	mg/l			
Silver	mg/l			
Zinc	mg/l			

V. Organic Chemical Emissions to Air

	2001
Quantity of organic air	
emissions.	lbs.

Examples: trichloroethylene (TCE), toluene, and methyl ethyl ketone (MEK). You may find this information on your TRI report.

IV. Wastewater Treatment Sludge

	2001
Total amount of wastewater	lbs.
treatment sludge generated:	
Total amount of hazardous	
wastewater treatment	lbs.
sludge that is shipped off-	
site for land disposal:	
Total amount of wastewater	
treatment sludge that is	lbs.
shipped off-site for	
recycle/recovery:	
Average water content of	
wastewater treatment	%
sludge:	
Sludge dewatering	
technology used (filter	
press, sludge dryer, etc.):	

VI. Energy Use

Energy Source	2001
Electricity use:	kWh
Natural gas use:	therms
Fuel oil/propane use:	gals.

Above energy use data covers (check one):

() metal finishing operations only or () entire facility.

VII. Resource Utilization & Compliance-Related Unit Costs

The following information is used to calculate environmental-related costs for your facility.

During 2001, how much did you pay for -
• one thousand gallons of water: \$/1000 gal. (include water and sewer charges)
one unit of electricity: \$/kWh.
• one unit of natural gas: \$/therms (or \$/CCF).
• one pound of sludge sent to a landfill or for recycle: \$/lb. (include transportation,
disposal/recycle)

VIII. Production Processes

What percentage, if any, of your year **2001** metal finishing sales are attributable to the following two product categories:

Fasteners: _____%

Automotive parts (except fasteners): _____ %

Enter the percentage of your metal finishing sales that was derived from each process during year 2001:

Zinc Rack		Silver Plating		Chromating	
	%		%		%
Zinc Barrel		Other Precious		Black Oxide	
	%	Metals Plating	%		%
Decorative Chrome		Tin or Tin/Lead		Other Conversion Coating	
Plating	%	Plating	%	(like phosphating)	%
		Other Plating:		Other Aqueous Finishing	
Nickel Electroplating	%		%	Processes (like	%
				passivation)	
Electroless Nickel		Anodizing (non-Cr)		Paint or Power Coat	
Plating	%		%		%
Cadmium Plating		Galvanizing		Electropolishing:	
	%		%		%
Hard Chrome Plating		Plating Gravure		Other:	
	%	Rolls	%		%

Note: The sum of all process percentages should equal 100%.

Please return your completed form by October 21, 2002 to:

National Metal Finishing Resource Center Technical Offices 10507 Walter Thompson Drive Vienna, VA 22181

Or FAX to: 703-255-2248

Please use the space below to send us comments or questions.