Environmental Aspect/Impact Analysis Sheet

Process	Environmental Aspects	Resource Use: Water , Energy, Raw Materials	Air Quality	Surface/ Ground Water	Land/ Soil	Employee Health	Level of Control	Frequency of Impacts	Quantity	Comm / Stakeholders	Current Significance Rating	Original Significance Rating C-I	Management Review Results	Revisions	Reviewed
WWT	Muratic Acid	2	2	3	2	3	1	2	3	3	21	15	Unable to eliminate due to process needs and lack of alternative chemistry / technology which would present less impact.		7/19/06
WWT	Sulfuric Acid	2	1	3	2	3	1	2	3	3	20	19			7/19/06
All	Nitric Acid	2	2	2	2	3	1	3	2	3	20	16			7/19/06
WWT	Sodium Hypochlorite 12.5%	2	3	2	1	3	1	2	2	3	19	14			7/19/06
QAP	Methanol	2	3	1	1	3	1	3	3	2	19	14			7/19/06
TER	Ag/Pd	3	2	1	3	2	2	2	1	3	19	22	Eliminated		7/19/06
EPL	Tin Solution	3	1	2	2	1	1	3	3	1	17	13			7/19/06
TER	Cu Paste	2	2	1	1	2	2	3	3	1	17	22			7/19/06
TER	Metallic Paste Application	2	3	1	1	2	1	3	3	1	17	15			7/19/06
QAL	Solder (paste & wire)	2	1	1	2	2	2	2	2	3	17	12			7/19/06
QAP	Solder Bar/Solder Paste	2	2	1	2	2	1	2	2	3	17	12			7/19/06
WWT	Solder Stripper	2	2	2	2	3	1	2	1	2	17	15			7/19/06
GM	Electrical Energy Consumption	3	2	1	1	1	2	3	3	1	17				7/19/06
ALL	Employee Transportation	3	3	2	2	1	1	3	1	1	17	13			7/19/06
EPL	Nickel Solution/WWT Effluent	2	1	3	2	1	1	3	2	1	16	22			7/19/06
EPL	Nickel Anodes	3	1	1	2	1	1	3	3	1	16	14			7/19/06
EPL	Tin Anodes	3	1	1	1	2	1	3	3	1	16	12			7/19/06
CAL	Caustic Soda 50%	2	1	2	1	3	1	2	2	2	16	17			7/19/06
CAL	14 % Ammonia water	2	2	1	2	2	1	3	2	1	16	17			7/19/06
CAL	5 % Sodium Chromate	3	1	2	1	3	1	3	1	1	16	15			7/19/06
EPL	Acetelyne Gas	2	3	1	1	2	1	3	2	1	16	19			7/19/06
EPL	Argon Gas	2	3	1	1	2	1	3	2	1	16	19			7/19/06
QAL	Rosin Flux	2	2	2	2	2	1	3	1	1	16				7/19/06
QAL	Ashai Speedy Flux	2	2	2	2	2	1	3	1	1	16	21			7/19/06
MEA	Energy Dissapated as noise	2	1	1	1	2	2	3	3	1	16	19			7/19/06
TER	Firing of Chips (Ag-Pd)	3	3	1	1	1	1	3	2	1	16	15			7/19/06
FIR	Firing of Chips (TME)	3	3	1	1	1	1	3	2	1	16	13			7/19/06
REC	Forklift Batteries	3	1	2	3	2	1	2	1	1	16	16			7/19/06
WWT	Aluminum Sulfate	1	1	2	1	2	1	3	3	1	15	13			7/19/06
CAL	6N HCL	2	2	2	2	2	1	2	1	1	15	18			7/19/06
EPL	10% Hydrocholoric Acid	2	2	2	2	2	1	2	1	1	15	16			7/19/06
CAL	0.1 Silver Nitrate	2	1	2	1	2	1	3	2	1	15	15			7/19/06
CAL	5 % Copper Sulfate	2	1	1	2	3	1	3	1	1	15	15			7/19/06
Outg	Pale Wood Rosin	2	2	2	1	2	1	2	2	1	15	21			7/19/06
TER	Terpineol (Cu)	2	2	1	1	2	1	3	2	1	15	12			7/19/06
WWT	Flocculant / Polymer	3	1	2	1	2	1	2	2	1	15	15			7/19/06
QAP	Epoxy Epo-Tek	2	3	1	2	2	1	2	1	1	15	17			7/19/06
QAL	Castolite Resin	1	2	1	2	2	1	3	2	1	15	12			7/19/06
QAL	Castolite Hardener	1	2	1	2	2	1	3	2	1	15				7/19/06
EPL	Water Consumption	2	1	1	1	1	2	3	3	1	15				7/19/06
TER	Carrier Plates	3	1	1	1	1	1	3	3	1	15	14			7/19/06
MEA	Perishable tooling / C - Blocks	2	1	1	2	1	2	3	2	1	15	13			7/19/06
ALL	Clorox	1	2	1	2	2	2	2	2	1	15				7/19/06
ALL	409 Cleaner	1	2	1	2	2	2	2	2	1	15	13			7/19/06
ALL	Windex	1	2	1	2	2	2	2	2	1	15	13			7/19/06
ALL	Mean Green	1	2	1	2	2	2	2	2	1	15				7/19/06
EPL	Steel Shot Media	2	1	1	1	1	1	3	3	1	14	12			7/19/06
CAL	0.2 Na OH	2	1	1	1	2	1	3	2	1	14	16			7/19/06
CAL	20 % Sodium Hydroxide	2	1	1	1	2	1	3	2	1	14	18			7/19/06
CAL	Mannitol	2	2	1	1	2	1	3	1	1	14	16			7/19/06
ALL	Isopropyl Alcohol	2	2	1	1	2	1	2	2	1	14				7/19/06
WWT	Calcium Chloride	2	1	2	1	1	1	2	3	1	14	13			7/19/06
EPL	Carbon Filled Filter	3	1	1	2	1	1	2	2	1	14	11			7/19/06

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EPL	Micron Filter	3	1	1	2	1	1	2	2	1	14	11			7/19/06
Outg	Clean Room Wipes/ Gloves	1	1	1	2	1	2	3	2	1	14	12			7/19/06
Pack	Carrier Tape	3	1	1	1	1	1	3	2	1	14	13			7/19/06
Pack	Cover Tape	2	1	1	2	1	1	3	2	1	14	12			7/19/06
Outg	Labels	2	1	1	2	1	1	3	2	1	14	10			7/19/06
REC	Pallets	2	1	1	2	1	1	3	2	1	14	14			7/19/06
Outg	Paper Carrier Tape	2	1	1	3	1	1	2	2	1	14	11			7/19/06
ALL	Plastic Bags	1	1	1	2	1	2	3	2	1	14	12			7/19/06
QAL	Fluorinert Brand Electronic	2	1	1	2	2	1	3	1	1	14	13			7/19/06
ALL	Polaroid Film	2	1	2	2	1	1	2	2	1	14				7/19/06
ALL	Computer Paper	2	1	1	1	1	1	3	3	1	14	10			7/19/06
ALL	Lysol	1	2	1	1	2	2	2	2	1	14	13			7/19/06
ALL	White Out	1	2	1	2	2	2	2	1	1	14				7/19/06
CAL	0.1 M EDTA	2	1	1	1	1	1	3	2	1	13	13			7/19/06
CAL	0.1 N Iodine	2	1	1	1	1	1	3	2	1	13	12			7/19/06
PDI	Ethyl Lactate (Vertec)	2	2	1	1	1	1	2	2	1	13	10			7/19/06
ALL	Nitrile Gloves	2	1	1	2	1	1	2	2	1	13	10			7/19/06
ALL	Spill-Kit Acid	2	1	1	2	2	2	1	1	1	13	11			7/19/06
ALL	Spill-Kit Caustic	2	1	1	2	2	2	1	1	1	13	11			7/19/06
REC	Bubble Wrap	1	1	1	2	1	1	3	2	1	13	11			7/19/06
Shipp	Clear Reel Bags	1	1	1	2	1	1	3	2	1	13	9			7/19/06
ALL	Corrugated Boxes	2	1	1	1	1	1	3	2	1	13	11			7/19/06
Shipp	Plastic Totes	2	1	1	1	1	1	3	2	1	13	11			7/19/06
ALL	Stretch Wrap	2	1	1	1	1	1	3	2	1	13	10			7/19/06
REC	Wooden Crates (from Paste ship)	2	1	1	2	1	1	1	3	1	13	14			7/19/06
QAL	Diamond Grinding Disk	1	1	1	1	2	2	3	1	1	13	11			7/19/06
QAL	Lapping Films	1	1	1	1	2	1	3	2	1	13	10			7/19/06
Shipp	Sato Ribbons	1	1	1	2	1	1	3	2	1	13	11			7/19/06
ALL	UV Light and Stamp	2	2	1	1	1	1	2	2	1	13	12			7/19/06
CAL	Ni A.A 1000ppm std	2	1	1	1	2	1	2	1	1	12				7/19/06
CAL	Pb A.A 1000ppm std	2	1	1	1	2	1	2	1	1	12				7/19/06
CAL	Sn A.A 1000ppm std	2	1	1	1	2	1	2	1	1	12				7/19/06
ENL	10.00 buffer solution	1	1	1	1	2	1	2	2	1	12				7/19/06
ENL	4.00 buffer solution	1	1	1	1	2	1	2	2	1	12				7/19/06
ENL	7.00 buffer solution	1	1	1	1	2	1	2	2	1	12				7/19/06
CAL	BCP Chemical Indicator	2	1	1	1	2	1	2	1	1	12	13			7/19/06
CAL	MX (murexide) Chemical Indicator	2	1	1	1	2	1	2	1	1	12	13			7/19/06
EPL	ABC Dry Chemical	1	2	2	1	2	1	1	1	1	12	10			7/19/06
EPL	ABC Dry Chemical Extinguisher	1	2	2	1	2	1	1	1	1	12				7/19/06
QAP	ABC Dry Chemical Extinguisher	1	2	2	1	2	1	1	1	1	12				7/19/06
Shipp	Anti-Static Reel Bags	1	1	1	1	1	1	3	2	1	12	9			7/19/06
Outg	Bulk Cassettes	2	1	1	2	1	1	1	2	1	12	10			7/19/06
Shipp	Desiccant Packs	1	1	1	1	1	1	3	2	1	12	9			7/19/06
Outg	Heat Tape	1	1	1	2	1	1	2	2	1	12	9			7/19/06
ALL	Packing List Envelope	1	1	1	1	1	1	3	2	1	12	10			7/19/06
ALL	Styrofoam / Peanuts	2	1	1	1	1	1	2	2	1	12	9			7/19/06
ALL	Buehler-Met Discs Sandpaper	1	1	1	1	1	2	3	1	1	12				7/19/06
QAL	Texmet Polishing Cloths	1	1	1	2	2	1	2	1	1	12				7/19/06
EPL	Anode Bags	2	1	1	1	1	2	2	1	1	12	13			7/19/06
QAP	Carbon Printer Ribbons	1	1	1	2	3	1	1	1	1	12				7/19/06
Pack	C-Card	1	1	1	1	1	1	3	2	1	12	11			7/19/06
MEA	Incidental Cleaning	1	1	1	1	1	2	3	1	1	12	13			7/19/06
Outg	Invisible Ink	2	1	1	1	2	2	1	1	1	12	14			7/19/06
Pack	Label Remover	1	2	1	1	1	1	3	1	1	12	11			7/19/06
ALL	Paper Towels	2	1	1	1	1	2	1	2	1	12	12			7/19/06
Pack	Plastic Reels	1	1	1	1	1	1	3	2	1	12	10			7/19/06
ALL	Sealing Tape	1	1	1	1	1	1	3	2	1	12	10			7/19/06
CAL	1 % Starch	1	1	1	1	1	1	3	1	1	11	9			7/19/06
Outg	Bulk Bags	1	1	1	2	1	1	1	2	1	11	10			7/19/06

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Outg	Double Sided Tape	1	1	1	1	1	1	2	2	1	11	9			7/19/06
Pack	Labels	1	1	1	1	1	1	3	1	1	11	10			7/19/06
Pack	Lot Bins	1	1	1	1	1	1	3	1	1	11	10			7/19/06
ALL	Plastic Cover Sheets	1	1	1	1	1	1	2	2	1	11	9			7/19/06
QAP	Post-It Notes	1	1	1	1	1	3	1	1	1	11				7/19/06
ALL	Thermal Labels	1	1	1	1	1	1	3	1	1	11	11			7/19/06
TcWare	Thermal Ribbon	1	1	1	1	1	1	3	1	1	11	10			7/19/06
TER	Sealed Air (aerosol)	1	1	1	1	1	1	2	1	1	10	10			7/19/06
QAL	Anti-Static Lotion	1	1	1	1	1	1	2	1	1	10	13			7/19/06
ALL	Hand Guard Lotion	1	1	1	1	1	1	2	1	1	10	9			7/19/06
ALL	Digital Thermometer	2	1	1	1	1	1	1	1	1	10	9			7/19/06
ALL	Sharpie Markers	1	1	1	1	1	2	1	1	1	10				7/19/06
ALL	Stamp Pad Inker	1	1	1	1	1	2	1	1	1	10				7/19/06
Outg	Transport Carts	2	1	1	1	1	1	1	1	1	10	8			7/19/06
ENL	23.8 µm std.	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	46.7 µm std.	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	84.0 µm std.	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	Cond. Probe	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	pH probe	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	Test Cups	1	1	1	1	1	1	1	1	1	9				7/19/06
ENL	Test Tubes	1	1	1	1	1	1	1	1	1	9				7/19/06
ALL	Chemwipe Static Clean	1	1	1	1	1	1	1	1	1	9				7/19/06
Outg	Tweezers	1	1	1	1	1	1	1	1	1	9	9			7/19/06
ALL	Swabs	1	1	1	1	1	1	1	1	1	9	7			7/19/06
AQP / Process Improvements / Employee Suggestions / Corrective Actions, etc…															
ALL	GP-01, GP-02 Building consolidation	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
TER	AL Oven Exit	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
Pack	Vacuum for paper dust	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
TER	(2) AL operation with one oper	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
MEA	Implement New HP Definition	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
EPL	Tin Concentrate change SG-J to MLCC	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
WWT	Chemical Island Rebuild	1	1	0	0	0	1	1	1	1	6	NA			7/19/06
FIR	Nitrogen reflow oven	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
Pack	MT Speed up (1300 pcm)	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
Pack	Magnet Mod. for component orientation	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
TER	MLAP Metalizer Debris Cover	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
WWT	WWT pH change (location)	1	1	1	1	1	1	1	1	1	9	NA			7/19/06
TER	Autoline oven conveyor motor	1	1	1	1	1	1	1	1	1	9	NA			9/6/06
Pack	TWA-6601 Taping Machine	1	1	1	1	1	1	1	1	1	9	NA			10/16/06
EPL	EP3 plating tank timers	1	1	1	1	1	1	1	1	1	9	NA			12/11/06
								Significant Aspect Total			1943				

Significant Aspect (Greater than 19)
Eliminated (Not to be used in total calculation

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Comments

probe cleaning bi-weekly in T-5 and T-13 to eliminate unnecessary use
Ph location change was in progress as of 07/19 to improve precepitation of Ni
Eliminated 7/19/06

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