CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2001

DateRun: 08/16/2001

Experimenters: Jason Marshall

ClientType: General

ProjectNumber: Project #1

Substrates: Brass

PartType: Part

Contaminants: Paints, Oxides

Cleaning Methods: Ultrasonics

Analytical Methods: Visual

Purpose: Evaluation of additional cleaners

Experimental Procedure: Two new products were selected from the vendor listing based on supplied information. One cleaner from the previous trial was used as a comparison. Parts were cleaned for 40 minutes followed by a tap water rinse at 120 F and dried with a heat gun at 500 F. Observations were made at the end of the trial.

Results: DuPont's DBE-4 and Ecolink Safe Strip were very effective in removing the paint from the brass parts. The Safe Strip did not tarnish the metal. The following table lists he observations made for each cleaner at 10 minute intervals. The figures show before and after parts.

Cleaner	Time	Observation
Shopmaster	10	dissolving paint
	20	some lifting
	30	softening paint
	40	paint remaining
DBE-4	10	dissolving
	20	lifting
	30	good cleaning
	40	nearly all paint gone
Safe Strip	10	dissolving and lifting
	20	bright metal
	30	good cleaning
	40	all paint gone, not tarnished

Summary:

Substrates:	Brass				
Contaminants:	Paints, Oxides				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Buckeye International	Shopmaster RC	100	3.00	☐	Rank
Invista S.a.r.l	Flexisolv DBE 4 ester	100	2.00	☑	Rank
EcoLink	Safe Strip	100	1.00	☑	Rank

Conclusion: Two products removed all or nearly all of the paint within the 40 minutes of soaking. These two products did not cause the brass parts to become dark, although they did not improve the brightness.