CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2008

DateRun: 06/16/2008

Experimenters: Jason Marshall

ClientType: Electro-Optical Devices

ProjectNumber: Project #1

Substrates: Paper

PartType: Part

Contaminants: None

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: To evaluate compatibility of cleaning products with paper backing material

Experimental Procedure: The top three products from the previous follow up trial and one product selected for onsite piloting were applied to a 3" x3" square of supplied paper backing used in the manufacturing process. The cleaning products were allowed to remain on the surface overnight (18 hours). Afterward, the squares were observed to determine if there was any visual damage to the material and if there was any cleaning product residue.

Results: The previously selected product DS 144 and the Clorox Green Works Glass cleaner both had little to no residue remaining after sitting overnight. All four products did not cause damage to the paper backing. Observations are listed in the table.

Cleaner	Observations
DS 144	Only slight film
	No visible sign of cleaner
	No damage to surface
BioGold 3	Visual film on surface
	Slippery
	No damage to surface
Soy Strong	Some film remaining but less than BioGold 3
	Some visual sign of cleaner
	No damage to surface
Green Works	Only slight film
	No visible sign of cleaner
	No damage to surface

Summary:

Substrates:	Paper				
Contaminants:	None				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Dysol	DS 144S Wipe Solvent	100	0.00	☑	Rank 1
Vertec BioSolvents	VertecBio Gold 3	100	0.00	☑	Rank 4
Spartan Chemical Company	Soy Strong	100	0.00	☑	Rank 2
Clorox Company	Green Works Glass and Surface Cleaner	100	0.00	☑	Rank 1

Conclusion: The amount of residue left behind could easily be eliminated during a normal cleaning process using a wiping action. The three products from the follow up testing will be evaluated on the EVA material.