CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	1999
DateRun:	03/08/1999
Experimenters:	Jason Marshall
ClientType:	State Transportation Agency
ProjectNumber:	Project #1
Substrates:	Aluminum
PartType:	Part
Contaminants:	Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Dirt, Oil
Cleaning Methods:	Media Blasting
Analytical Methods:	Visual
Purpose:	To evaluate baking soda blasting as a method to clean the brushed aluminum from trains.
Experimental Procedure:	Two brushed aluminum parts were brought to a facility in Springfield that operates an Armex Cleaning and Coating Removal System. The media being used with this blasting equipment was Arm & Hammer Baking Soda from Church & Dwight Co. The system operates with a pressure of 100 psi and a delivery of 150 cubic feet per minute of the baking soda. The part was placed into the cleaning chamber. The time required to clean the parts was under 15 seconds. Parts were rinsed for 10 seconds with a tap water spray. SUBSTRATE MATERIAL: Brushed Aluminum CONTAMINANTS: Dirt, oil & grease
Results:	Parts were easily cleaned using the Armex system. The parts have been returned to the client for inspection.

Summary:

Substrates:	Aluminum				
Contaminants:	Cutting/Tapping Fluids, Greases, Lubricating/Lapping Oils, Dirt, Oil				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Armex Cleaning and Coating Removal Systems	Sodium Bicarbonate	100	0.00	☑	

Conclusion: Baking soda blasting could be used to provide an initial base line cleaning for the brushed aluminum. Additional product literature has been included with this report.