

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 1998

DateRun: 07/16/1998

Experimenters: Carole LeBlanc, Jason Marshall

ClientType: Nozzle Manufacturer

ProjectNumber: Project #1

Substrates:

PartType: Coupon

Contaminants: None

Cleaning Methods: Low Pressure Spray

Analytical Methods: Force Measurement

Purpose: Preliminary Report

Experimental Procedure:

Results: Week of July 6, 1998
Jason Marshall (978) 934-3133, Laboratory Technician for TURI's Surface Cleaning Laboratory (SCL):
(1) Constructed the acrylic 'box' from materials supplied by Nozzle MFR, Inc. using various saws and epoxies. The unit is necessary to house the Davis Force Gauge during the upcoming nozzle trials for protection from the water spray that will be generated.
(2) Constructed a platform from which to mount the piping and nozzle configuration, again supplied by Nozzle MFR, for testing. A pressure gauge supplied by TURI was inserted as close to the site of the nozzle attachment as possible. This was done to insure that a minimum of 40 psi was attained for proper experimental conditions.
(3) Tested the mounting platform on the ground of the University of Massachusetts for sturdiness. This test was positive.
Week of July 13, 1998
Jason Marshall and Carole LeBlanc (978) 934-3249, SCL Manager:
(4) Obtained permission from University safety officer to conduct trials. A 24-48 hour notice was requested before the actual run.
(5) Tested the external water capacity of the Pinanski Building, site of TURI. This test was negative for pressure as evidenced by the pressure gauge (2) above and visual observations of a bathroom scale, recommended by Davis Instruments for the proper selection of the force gauge, placed approximately ten feet away from the nozzle platform.
(6) Received authorization to purchase the force gauge through the University's Research Foundation before reimbursement by Nozzle MFR.
Planned actions, Week of July 20, 1998: *
(1) Obtain permission from University to use water hydrant with restrictor adjacent to testing field for tests. This will ensure that suitable water pressure is maintained. All hoses and connectors will be supplied by the University.
(2) Perform one more trial before ordering the force gauge which the vendor reports is in stock and can be received within one week of ordering.
In addition, arrangements have been made to photograph the work-in-progress. This will be done at no further cost to Nozzle MFR.
Only two action items are planned for this week as a consequence of vacations for SCL staff, Monday, July 20 and Friday, July 24.

Summary:

Substrates:					
Contaminants:		None			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Water	Water			<input type="checkbox"/>	

Conclusion: