

Appendix H Observers' Evaluation Sheet

This Appendix provides a reproduction of the blank evaluation sheet filled out by the observers during the screen reclamation products performance demonstration.

Observer's Evaluation Sheet
Screen Reclamation Products Performance Demonstrations

Facility name: _____ Location: _____

Date: _____ Time: _____ Facility contact name/phone: _____

Screen reclamation employees(s): _____

1. Type of Demonstration:

check one: Products currently used at facility _____ Alternative Products _____

2. Operating Conditions

Record the information on the screen being cleaned on the table below:

Screen Information

SCREEN CONDITION	<i>Fill in the blank or circle the appropriate characteristic. Make any notes or comments in the space to the right.</i>
Screen identification and history	<p><i>Enter the identification marking code that is on the screen:</i></p> <p><i>Estimate the number of impressions printed over the life of this screen:</i></p> <p><i>Estimate how much ink was left on the screen? (< avg., avg., > avg.)</i></p>
Screen size	_____ x _____ (specify units; in ² or ft ²)
Number of impressions of the screen's last run	
Screen degreaser	<i>Specify manufacturer and series # or name:</i>
Ink type	<p><i>Circle one:</i></p> <p>Solvent-based, UV, or water-based</p>

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	<i>Specify manufacturer and series # or name:</i>
Ink color	<i>Circle one:</i> Blue, Black, Other (specify):
Emulsion type	<i>Circle one:</i> Capillary film, Direct photo stencil, Dual cured, Other (specify): <i>Specify manufacturer and series # or name:</i>
Ink coverage	<i>Check one:</i> 0 - 25%... 25 - 50%... 50 - 75%... 75 - 100%...
Screen condition	<i>Note any rips, holes, corrosion</i>
Screen mounting	Is a retensionable frame used? Is the screen glued to the frame?
Thread count	_____ threads/inch
Thread diameter	_____ (specify units)
Tension level <i>(measure both major axes; specify units)</i>	major axis: _____ N/cm minor axis: _____ N/cm
Mesh type <i>(record type of mesh material)</i>	
Mesh treatment <i>(has</i>	

<p><i>the mesh been abraded? calendared? or treated?)</i></p>	
<p>Calibration of measurements</p>	<p>_____ scoop(s) of haze remover = _____ ounces</p>
<p>Temperature (<i>in the work area</i>)</p>	<p>Ink removal area: _____ F</p> <p>Emulsion/Haze removal area: _____ F</p>
<p>Humidity (<i>in the work area</i>)</p>	<p>Ink removal area: _____ %</p> <p>Emulsion/Haze removal area: _____ %</p>

3. Cleaning Procedure

Clean the screen using the application technique designated by SPTF for alternative products or follow your typical screen reclamation procedure if demonstrating the currently used products.

Observe all actions taken by the employee in reclaiming the screen and record any differences between the technique used and the technique specified by SPTF for alternative products or the technique documented in the facility questionnaire for products currently used at the facility.

Cleaning Procedure:

For currently used products, are any variations of the reclamation procedure used, and if so, under what circumstances? For what percentage of screens, or how often are these method variations used?

Describe any temperature or humidity controls in the ink removal or reclamation area.

4. Performance

Complete the performance evaluation table on the next page for alternative products and for currently used products.

Performance Evaluation

	<i>Enter quantity, comments, and notes</i>
<p>Drying Time <i>(specify units; hours or mins.)</i></p>	<p>Time from end of press run to start of ink removal with product: _____</p> <p>Time from ink removal completed to start of emulsion removal: _____</p> <p>Time from emulsion removal completed to start of haze removal: _____</p>
<p>Dilution <i>(record dilution ratio or enter "None")</i></p>	<p>Ink Remover _____ <i>(enter ratio) or "none"</i></p> <p>Emulsion Remover _____ <i>(enter ratio) or "none"</i></p> <p>Haze Remover _____ <i>(enter ratio) or "none"</i></p>
<p>Quantity of Product Used</p>	<p>Ink Remover _____ <i>(enter # of ounces)</i></p> <p>Emulsion Remover _____ <i>(enter # of ounces)</i></p> <p>Haze Remover _____ <i>(enter # of ounces or scoops)</i></p>
<p>Time to clean <i>(do not include screen positioning or equipment clean up time)</i></p>	<p>Ink Remover _____ <i>minutes</i></p> <p>Emulsion Remover _____ <i>minutes</i></p> <p>Haze Remover _____ <i>minutes</i></p>
<p>Physical effort required <i>(circle one for each step and describe effort used)</i></p>	<p>Ink Remover: <i>circle one: Low, Moderate, High. Describe:</i></p> <p>Emulsion Remover: <i>circle one: Low, Moderate, High. Describe:</i></p>

	<p>Haze Remover: <i>circle one:</i> Low, Moderate, High. <i>Describe:</i></p>
<p>If wipes were used for ink removal, specify the type, size and quantity used.</p>	
<p>Was a pressure washer used? (<i>check one for each step</i>)</p>	<p>For Ink Removal: No _____ Yes _____ (specify length of time used _____ mins.)</p> <p>For Emulsion Removal: No _____ Yes _____ (specify length of time used _____ mins.)</p> <p>For Haze Removal: No _____ Yes _____ (specify length of time used _____ mins.)</p>
<p>Was tap water (NOT pressure wash) used in any part of screen cleaning/reclamation ?</p>	<p>Was (non-pressurized) water used in (<i>check all that apply</i>): Ink Removal... or Emulsion Removal... or Haze Removal...</p> <p>Flowrate: _____ (gallons/minute)</p> <p>Length of time used: _____ (specify seconds or minutes)</p>
<p>Examine screen after ink removal.</p>	<p>Did the product effectively and easily remove the ink? Also note any side effects of the product on the mesh):</p>
<p>Examine screen after emulsion removal.</p>	<p>Is there any ink haze or stencil stain on the mesh? If so, describe in detail:</p> <p>If any emulsion is still present, describe the residue left on the screen in detail:</p>

	<p>Note any side effects on the screen (<i>e.g., mesh damage, corrosion, etc.</i>)</p>
<p>Examine screen after reclamation is complete.</p>	<p>Can the screen be reused for all jobs? (<i>check one</i>) Yes _____ No _____ If "No", describe why the screen cannot be reused or what limitations apply: <i>(e.g., Is there is a ghost image? Can the screen be used for reverse printing? for close tolerance work? Can transparent inks be used with it?)</i></p>
<p>Remeasure the screen tension of both major axes and record (<i>specify units</i>)</p>	<p>major axis: _____ N/cm minor axis: _____ N/cm</p>
<p>Examine the substrate image after the screen is reused. Comment on the print image quality.</p>	
<p>Comments or suggestions - Use the back of this sheet to note anything unusual about this demonstration. (<i>e.g., did you have to reapply any of the products? was this screen more difficult to clean than others?</i>)</p>	

5. Experience with Alternative Screen Reclamation Products

a. Have you tried any alternative chemical products to replace your current screen reclamation products?

- If yes, please list the product trade name(s) and the generic product type(s):

- Why were the alternative product(s) better, the same, or worse than your old product?

- If you have not tried a different chemical product, please check the box that best

describes your reason for not trying alternatives:

Lack of adequate information to evaluate environmental performance:

Operators do not believe alternatives will work:

Not impressed with product descriptions:

Cost is prohibitive:

Other: (please explain):

b. Besides alternative chemical products, have you implemented any changes in equipment, procedures or work practices that reduced your use of screen reclamation chemicals, or reduce the time, effort or water required to use those products? Yes.....

No.....

- If yes, please describe:

c. Does this facility have a pollution prevention, waste minimization, or source reduction program?

- If yes, please describe:
