IMAGING SYSTEM AIRBORNE EMISSIONS ASSESSMENT REPORT

TNPP/3244-1.01

The following output device, when used with the following ablative printing medium, has met the criteria of the CreoScitex Imaging System Airborne Emissions Assessment Protocol (ISAEAP; CreoScitex Document # 72-3495B).

CreoScitex output device TS 3244 Model AL with TH 2_ PIX 224_

Printing medium TNPP (Navajo) Batch/Lot # n/a_____ ◊ Positive ♦ Negative

Media vendor Kodak Polychrome Graphics (KPG)

Date of testing _March 09, 2001_

Testing data:

Imaging speed 0.268_ m^2/min (maximum _0.289); Duty cycle _0.71_

Plates size L x H _1029 x 762 mm (maximum 1118 x 813); Image size 1029 x 743 mm

Amount of plates run just before and during sampling # 4162 to 4222 (2974 to 3020 = 46 m^2)

Imaging screen (percentage of imaged area) 100 %

Exposure _325__ mJ/cm^2 (nominal _300__)

Power on plate _17.3_ W (maximum _18.7_); Drum speed _150_ rpm

Chemical filter p/n prototype s/n n/a_____; depletion prior to test _99_ %

Particulate filter p/n prototype s/n n/a_____; depletion prior to test _10_ %

Air flow through the DRS 1.23 m^3/min = 43.4 cfm (minimum 1.2 m^3/min = 42 cfm)

Estimate of the room air mixing K = _5_; Room volume, appr. 83 m^3 (6.3 x 4.4 x 3 m) = 2930 ft^3

Assessment was performed:

♦ By test

◊ By evaluation based on the performance of output device _____ Model _____
(Assessment Report # _____ dated _____)

Reason for evaluation: _____

Concentrations in OBZ were determined by: ♦ sampling in OBZ

◊ sampling in OD and AO and computation by

$$C_{OBZ} = C_{OD} + C_{AO}\frac{Q_{AO}}{Q_{vent}}$$

Q_{AO}, m^3/min = 1.23 = 43.4 scfm
Q_{vent}, m^3/min = 2.8 = 100 cfm

Compounds sought for	DL	Concentrations, mg/m^3 Background	AO	OD	OBZ	Limits per ISAEAP, mg/m^3 OBZ	AO	OBZ RH
Acetaldehyde	0.01		0.15		0.028	45		0.00
Acrolein	0.01		0		0	0.23		0.00
Formaldehyde	0.01		0.056		0.017	0.084	0.12	0.20
Acetic acid	0.3		0		0	25		0.00
Respirable particulate	0.2				0	1.5		0.00
Nitric oxide (NO)	1		9.2		1.6	30		0.05
Nitrogen dioxide (NO_2)	0.5		0		0	5.6		0.00
Carbon monoxide	1		3.5		0	29		0.00
OBZ TRH								0.26

Gaseous compounds listed after Respirable particulate were sampled with Gastec detector tubes.

Concentrations below detection limit are indicated as "0".

Data were sourced from: Navajo Air Emissions … Test. ASL Analytical Service Laboratories Ltd, April 3, 2001 (ASL File No. M7523).

Conclusion on meeting the ISAEAP criteria: ♦ **Yes**
◊ **No**

If "No", explain

_____

_____

Is the outdoor air ventilation greater than 2.8 m^3/min (100 cfm) required: ◊ **Yes**
♦ **No**

If "Yes", Ventilation required ____ m^3/min = ____ cfm

Date __May 1, 2001_ City Burnaby, BC_

CreoScitex	Sampling/Analytical service: ALS Environmental (f. ASL)
Name Alexander Kheifets	Name Elizabeth McDonald, CIH, ROH

Abbreviations and nomenclature

AO – air outlet of the debris removal cabinet
C – concentration (mg/m^3)
DL – detection limit
DRS – debris removal system
OBZ – operator breathing zone
OD – output device
PIX – number of pixels
TRH – total relative hazard
Q – air flow
Q_{vent} – outdoor air ventilation rate
RH – relative hazard