Date:	11 June 2001
Subject:	**Kodak SO-661 Film for Dolev Family**

Number of pages sent (including this one): 3

1. **Summary**:

The **Kodak SO-661 Film** was tested at CSIL during May 2001. The primary objective of the examination was to determine the feasibility of using **Kodak SO-661 Film** for Turbo Screening on Dolev 800V², Dolev 800V³, Dolev 4PressV.

2. **Test Objectives:**

Determine:

2.1 Film linearity in a variety of screen rulings and imagesetter resolutions.

2.2 Practical minimum printable dot area in Highlight.

2.3 Possibility of using HDP and FM (CreoScitex™ FM screen) applications.

2.4 Verify that loading/unloading is problem free.

3. **Conclusions:**

3.1 **Kodak SO-661 Film** is applicable for Turbo Screening at resolutions 60 – 140 dpm and screen rulings 85 – 250 lpi.

3.2 **Kodak SO-661 Film** is acceptable for FM applications at plotter resolutions 60-100 dpm.

3.3 **Kodak SO-661 Film** is not acceptable for HDP 300-600 lpi. Additional tests are required.

3.4 **Kodak SO-661 Film** showed no scratches in the loading/unloading test, therefore it is acceptable to use with Dolev imagesetters.

4. **Results:**

Screen Ruling / Resolution	85 /60	150 /80	175 /100	200 /120	HDP 600/140	FM Res100

Dolev 800V²

Laser Intensity Nominal	**Dsolid**					
	5+	**5+**	**5+**	**5+**	**5+**	**5+**
Min printable dot area	1%	2%	1%	*3%	7%	1%
Nominal shift in	-2%	-3%	3%	-4%	25%	-3%

50% dot area						

Dolev 800V³

Laser Intensity Nominal	**Dsolid**					
	5+	**5+**	**5+**	**5+**	**5+**	**5+**
Min printable dot area	1%	2%	1%	1%	11%	1%
Nominal shift in 50% dot area	-1%	-2%	2%	-2%	2%	2%

* On the Vc200r12c screen set the machine wasn't calibrated for the 50% intensity. Correct 50% setting will provide an acceptable minimum printable dot.

1. **Shift between film dot area and file value by 50% was acceptable**.

   -4÷3% in normal range of screen rulings 85-200 lpi and imagesetter resolutions of 60-120 dpm.

   2÷25% in HPD screen rulings 250-600 lpi at Imagesetter resolution 140 dpm.

   -3÷2% in FM screens at resolution 60-100 dpm.

2. **The minimum printable dot area on the film was acceptable**.

   1÷3% for conventional applications.

   1% for FM application.

   7÷11% for HDP application **was not acceptable**.

3. **Results of the film loading and unloading operations were good and acceptable.**

   Film was loaded and unloaded to cassettes, accumulating cassettes and an in-line processor.

   Film was loaded and unloaded at maximum and minimum lengths.

   No scratches appear on the exposed and unexposed area.

Test Parameters And Conditions:

Film	**Kodak SO-661 Film**
Imagesetter	Dolev 800V², Dolev 800V³, Dolev 4PressV
Processing	On-line processor Hope EG900 (Echo Graphic), off-line processor 37C MK2 (Du Pont)
Processing Chemicals:	Developer: Kodak RA2000, Fixer: Kodak RA3000, Temp: 35C, Time: 30 sec.
Measuring Device:	Macbeth TD904
Test Target:	CreoScitex™ standard file "Film Test Strip" with file value from 0%

- 100%.

