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j.	F	REQUEST FOR SERVICE		

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Deadline Date 30 June 1970	Request	ter_		
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TECHNICAL EFFORT				
Generate 100 arbitrary color patches	on type SO-242	film by ph	otographin	g
"Color-Aid" swatches, determine colorimetr	ric values of sa	me, and co	ompare the	e '
values with customer-furnished values.		<u> </u>		
CUSTOMER FURNISHED MATERIAL				
100 feet, type SO-242 film, type II perforati final processing of exposed color patches, ar	····			ic
DELIVERABLE ITEMS	data of the			
1. 100 exposed, processed color patches of	on type SO-242	film	•	
		*	• •• •	- ,
			contractor	comna
2. Colorimetric values of processed color	patches, and o	ustomer/C		·
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3. Reports X Monthly X	r patches, and c	Final_	Memo	-
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Rates of Delivery, or Delivery period				·
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Rates of Delivery, or Delivery period				·

Statement of Work

Project: Color Patch Generation

Objectives:

- 1. Generate 100 arbitrary color patches on SO-242 film by photographing a selection of "Color-Aid" swatches.
- 2. Determine CIE coordinates of the 100 color patches and calculate chromatic difference, brightness difference, and total color difference of each when compared with a customer specified standard.

Approach:

One hundred color patches will be exposed on 70mm type SO-242 film using a Hasselblad camera, electronic flash equipment, and selected "Color-Aid" swatches. Tests will be conducted to determine the proper exposures and uniformity of illumination. These tests will utilize contractor-furnished EA-5 processing. Since the final exposures will be customer-processed, sensitometric cross-over data will be required to evaluate the test exposures.

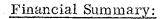
The exposed color patches will be shipped to the customer for processing, and colorimetric analysis, after which the patches and data will be returned to the contractor for colorimetric analysis, and comparison. The customer will supply his determination of x, y, and Y for each patch.

The C.I.E. tristimulus values, X, Y, and Z, will be determined from three replicate measurements of each patch. The average tristimulus values will be used to calculate the following from each color patch:

- 1. x and y (chromaticity coordinates)
- 2. Y (luminosity)
- 3. (Δ C)² (chromatic difference from customer's determination)
- 4. △ L (brightness difference from customer's determination)
- 5. Δ E (total color difference from customer's determination)

The above data will be reported to the customer in a memorandum summarizing the results of the project.

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18 May 70	Start c
27 May 70	Complete color patch selection and exposure tests
1 June 70	Complete color patch exposures and ship unprocessed film to customer
9 June 70	Receive processed film from customer
23 June 70	Complete colorimetric analysis of color patches
3 0 June 70	Deliver summary of results and color patches to customer

NOTE: The above schedule assumes receipt of 100 feet of type SO-242 film, 70 millimeter, type II perforation, by 22 May 70.

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