

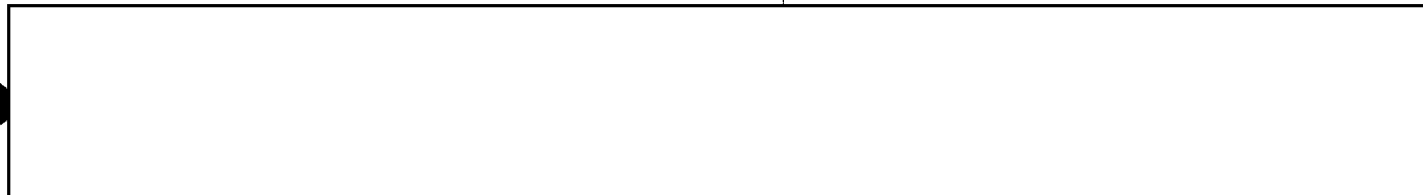
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TECHNICAL PROPOSAL
STEP AND REPEAT PRINTER

DECLASS REVIEW by NIMA/DOD

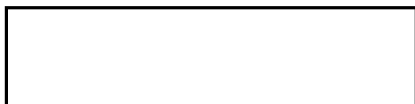
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November 9, 1962

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Dear Earle:

The scientific and engineering staff of [redacted] has been engaged in the research, development, engineering and manufacture of industrial and commercial photographic equipment for more than twenty two years. Specific emphasis has been placed on the research, development and manufacture of contact printers capable of printing from one film to another.

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Since its inception, 6 years ago, [redacted] has been involved in the design and manufacture of a series of contact printers which are marketed under the [redacted] trade name. This equipment has been used as the basis of several experimental printers for defense purposes.

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In the microfilm industry, [redacted]' continuous roll contact printers are the standard of the industry and are being used by every laboratory, which prides itself in producing quality contact prints.

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The unusual developments in the Recon Photo field in the last few years resulted in camera materials of very fine grain which have pushed the state of the art to the point where we have had to re-examine our basic design criteria. Under the most controlled conditions we are unable to make continuous contact prints without resolution loss or distortion greater than can be tolerated for the type of work your organization is performing.

Re-examination of the "basics" in light of the extensive present requirements presented us with some challenging specifications and requirements which go beyond those found in any presently known device, and preclude the use of continuous roll printing as it is currently designed. These specifications and requirements are as follows:

1. There must be no distortion from negative to positive film.
2. The image, at the time of exposure, must be in a perfectly flat plane.
3. There must be perpendicular light rays with respect to the film plane.
4. There must be perfect contact between negative and positive.
5. The mechanism shall be capable clean operation and should not contaminate the environment.
6. The device shall provide flexibility of control over speed of operation, intensity of light, size and types of material to be printed.

STATINTL The challenging problems inherent in a printer having the above stringent characteristics interested [] and our research staff to an extent that management authorized a study of the problems. [] study has resulted in evidence that the desired end could be met and a preliminary design study was instigated.

STATINTL The attached technical proposal, Attachment #1, outlines specifications for the printer covering all the requirements outlined above.

The design criteria for the printer were arrived at after a careful review of the problems and a systematic evaluation of the factors affecting the quality of the printed image.

We have outlined a considerable problem and have stated that we have a solution to it. However, a printer with basic specifications as outlined in our technical proposal represents a number of problems. Each one has to be researched and the proposed solution tested and proven or discarded and a new approach found to it before a perfectly operating prototype can be completed. This represents, therefore, a considerable research and development project which requires qualified engineers and technicians to bring it to a successful conclusion.

To substantiate our capabilities to undertake the project, we have included as Attachment #2, an outline of our technical personnel in the field related to the problem and list the types and names of the engineers assigned to the project. We have also included information on the facilities and equipment in our plant.

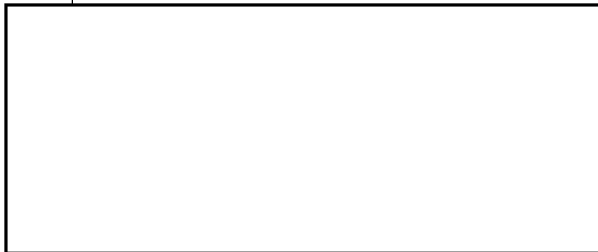
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Our price of [redacted] to complete the project is outlined in detail in Attachment #3 and corporate structure and financial responsibility necessary to undertake the contract are well known to your organization. Current financial information will be supplied on request.

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Respectfully submitted,



RJF:m1
Encl.