

For each program summarized on page one, submit: A Program Request Sheet, a program budget, and any supplementary materials you wish to attach. If you are requesting funds for more than one program, reproduce this page (either photocopied or typed) for each program.

1. Name of organization Experimental Television Center Ltd.
 Program title (as shown on page one) Systems Construction
 Program priority number (as shown on page one) 4
 Name and telephone of person responsible for this program Ralph Hocking 607 723-9509
 Program starting date (as shown on page one) 7/1/77 Ending date 6/30/78
 Location (facility and address) Experimental Television Center, 164 Court Street, Binghamton
 County(ies) in which services will be offered. If more than one, estimate the dollar amount New York
 of requested NYSCA funds to be used per county Broome; equipment will be utilized by
artists from throughout New York State

2. Complete description of program or activity within this space. In an effort to meet the needs of artists, certain of the existing systems must be modified or supplemented; these projects will increase the image-making capability, provide greater control and flexibility and insure accurate signal generation and recording. The presence of the microprocessor necessitates certain modifications to the colorizer, calls for the construction of other signal generating devices and demands the acquisition of equipment to increase the capabilities of the computer interface. The systems construction relating directly to the microprocessor will be discussed separately. Project 1: The present audio system is monaural and the Center would like to convert to stereo. As artists become more involved with the use of 3/4" cassette equipment, a stereo audio system is necessary. The system will allow mixing of phono, mikes and audio tapes as well as additional equipment through a patching system. Project 2: The Paik/Abe synthesizer requires some modifications to permit the interface with the microprocessor and the input of control signals generated by the audio synthesizer. The output amplifier must be redesigned to permit the accurate generation and control of the color output signal. The addition of a soft edge key, chroma key and edge generator will greatly increase the image making capability of the system. The design and construction of components will be done by David Jones. The development of the Jones colorizer was supported by the NYSCA in 1975-76. Since that time the prototype has been used at the Center. This colorizer will also be interfaced with the microprocessor; inputs have been modified to be compatible. Because the colorizer is a prototype and has been used for approximately two years by visiting artists, the boards should be rebuilt before it is permanently coupled to the computer. Project 3: An audio synthesizer system, when coupled with the microprocessor and the video synthesizers, will form a complete system for the generation and control of video images. The goal in the construction of this system is two fold, with emphasis on the ability of the system to permit artists to generate and form signals which become voltage inputs to the video synthesizer. These signals can then be used as control signals which will cause changes in certain functions of the colorizer. The composition of electronic music, although not the aim of this system, will be a result of making the system available. The control signals generated by the computer can be used as inputs to either the video synthesizer or the audio synthesizer or both simultaneously. The control signals generated by the audio synthesizer can also be used as inputs to the video synthesizer. The design of this audio synthesizer has been completed; the system will be built in modular units to permit expansion at a later date. All modules listed in the itemized budget are available from Electronotes, Ithaca.

3. Attach a detailed program budget following the Budget Instructions in the Guidelines.

Enter from your attached budget: Cost of program \$ 5,718.00 Amount requested \$ 4,418.00
 (These figures should agree with those shown on page one.)