II. FIRE

FIRE, formerly called Table 3, is a visual presentation incorporating 35mm slides and a video projector driven by a laser disk player. The table is shown in Fig. II-1 and schematically in Fig II-2. In Fig. II-1, the pneumatically activated screens are shown in the "down" position. They are raised (to a vertical position) and lowered sequentially as part of the FIRE program.
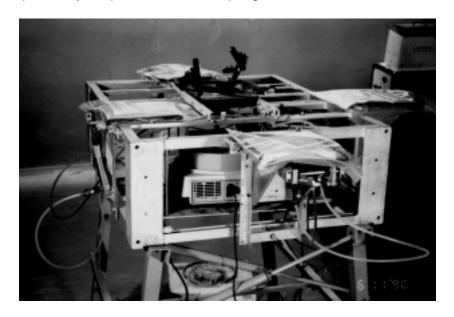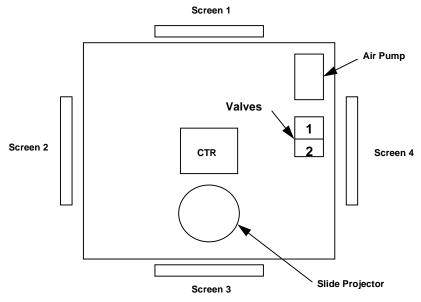

Figure II-1. The FIRE Table

Figure II-2. FIRE Table Schematic

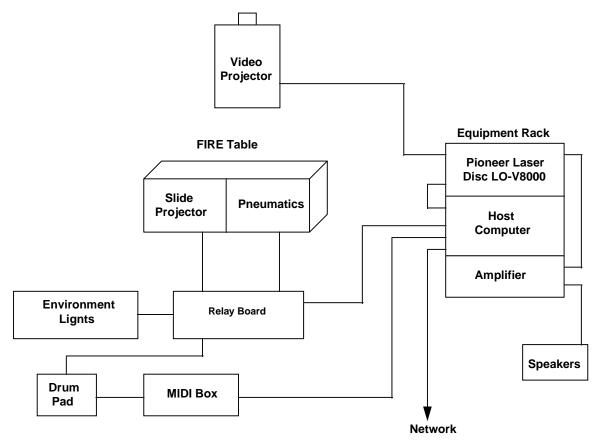Other components of the FIRE presentation are shown schematically in Fig. II-3, and listed in Table II-1.

Figure II-3. FIRE System Schematic

Table II-1. FIRE Components

Component	Manufacturer, Model
Laser Disk Player	Pioneer, LO-V8000
Air Pump	Pneumotive, 9-3.8
Relay Board	Opto22, PB8
Relay Board Power Supply	Intronics, SME 1000/5D
Slide Projector	Kodak Ektagraphic, E-2
Video Projector	Sharp LCP, XV-100
Host Computer	Custom-built
Drum Pad	Roland, PAD-5
Amplifier/Speakers	To be determined
Midi Box	Portman PC Serial

The four projection screens are each operated pneumatically. Air is supplied by an air pump to a pair of electrically operated valves, one for pressurization of the cylinders and one for exhaust. Pressurized air is fed to a manifold and then distributed to the cylinders. The manifold is shown schematically in Fig. II-4.
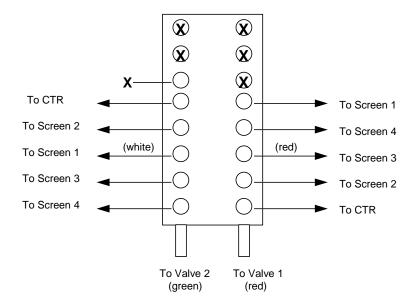

Figure II-4. Air Manifold

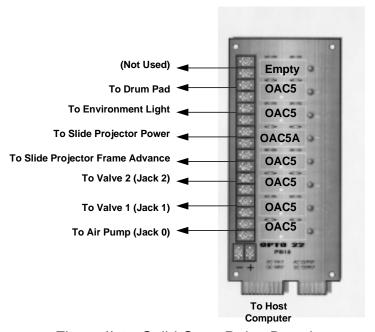Control signals from the Host Computer are fed to an Opto22 PB8 solid-state relay board. Seven of the eight relay slots are used as shown in Fig. II-5.

Figure II-5. Solid-State Relay Board