For conference Call 1-30-78 Parts list Cartidge Roys regime sparate #5 for each a Schematie pull-up resistors to +11 or +16? DB 15 dan not go & Control Parts add fower & ground to schematics magnarox part for consul spring for Rest button. plus puck-on washer del 218-6 automos suitels Round feet Unresolved! Interconnection between PS x Lagic board Transformer smitch - 15 board connection Cartudge connector Controlly cable & connector First paper

March 6, 1978
REVISED MARCH & 1978

### VIDEO GAME SPECIFICATIONS FOR GENERAL INSTRUMENTS 49

Dr. David P. Chandler

### 1. GENERAL

The objective of the systems engineering task is to develop a program-mable video game which is attractive, versatile, offers sophisticated game play and captivating visual and sound effects, and meets F.C.C. and UL requirements -- all at the minimum cost consistent with these objectives.

### 2. GENERAL INSTRUMENTS RESPONSIBILITIES

The portions of this engineering task for which General Instruments is responsible are:

- A. Circuit development and design, except for the controllers, which are Mattel responsibility. The circuit design is to be separated into three printed circuit boards:
  - (1) Logic board
  - (2) Power supply board
  - (3) Cartridge board
- B. Development of test procedures and equipment to perform:
  - (1) 100% testing of parts delivered by General Instruments to Magnavox.
  - (2) Sampled receiving inspection at Magnavox of General Instrument integrated circuits tested as sets.
  - -(3) 100% go-no-go testing of each assembled printed circuit board.
  - (4) Fault isolation testing of failed printed circuit boards.
  - (5) 100% go-no-go testing of assembled systems for use as final inspection at Magnavox and as sampled receiving inspection by Mattel.
- C. Management of preparation for and obtaining F.C.C. approval.

### 3. FUNCTIONAL CHARACTERISTICS

The electrical functional characteristics are most accurately defined

March 6, 1978
Page 2

by identifying the major circuit elements to be designed into this system, which are:

- A. 1 1610 CPU
- B. 1 STIC II TV Interface Chip (per spec dated
- C. 1 20K ROM (40pin) Graphics ROM (GROM)
- D. 512 X 8 RAM Graphics RAM (GRAM)
- E. 1 RA-3-9600 Background RAM, Bus Buffer, and 112 X 16 Scratchpad RAM
- F. 128 X 8 RAM Additional Scratchpad RAM
- G. 1 20K ROM (40Pin) Resident Program ROM
- H. 1 Sound I/O IC
- I. Place for 1 additional 20K (28 Pin) Resident ROM
- J. 1 ASTEC 1284 Modulator, with channel 3-4 select and both color and sound modulated.
- K. 1 or 2 20K ROM (28 Pin) Cartridge Program ROM per Cartridge
- L. All the necessary circuitry (including power supply) to make these work properly

### 4. PHYSICAL CHARACTERISTICS

The physical constraints imposed on the various printed circuit boards are defined by Mattel's drawings: Layout (2609), Layout P.C.B. (2609).

### 5. LOGIC BOARD

All the parts listed in section 3 above except the cartridge ROM(s) are mounted on the logic board. It is a two-sided board with plated through holes, which is mounted with components-side down. The functional interfaces with this board are:

- A. Cartridge (I/O) 22 Pin (0.100 Centers, single sided, part number to be determined) edge connector into which cartridge P.C. board plugs. Note that cartridge housing completely surrounds this connector and the tongue of the logic board as far back as the depth of the connector housing. Signals on this connector are DBO-DB14, 4 control lines, ground, and 2 +5 volt lines. (The cartridge connects +5 volt power back to the logic board.)
- B. Controllers

  (Input)

   Two 9 Pin connectors (Magnavox part # 181254). See layout P.C.B. drawing for desired location. On each connector, pin 1 is ground, pins 2-9 are 8 bit input character going to sound-I/O IC. Pin 2 is least significant bit. Controllers are 8 switches to the ground line with a maximum of 100 ohms series resistance per switch.
- C. Power (Input) 5 pin connector (Magnavox part #181300). See

video Game Specifications for G. I. March 6, 1978 Page 3

> layout P.C.B. drawing for desired location. Pin designation left up to General Instruments.

(Output)

- D. Antennae Cable Phono socket on modulator. RF signal suitable for driving all properly operating T.V.'s through antennae cable and switch (Magnavox part #461218 and 701702-005).
- E. Channel Select Slide switch (Magnavox part #160556-2). (Input)
- F. Reset Switch - Momentary, normally open contacts (Magnavox part #160599-1 and 160599-2). These parts must be (Input) attached to circuitry side of P.C. board and may require special holes. Coordinate with Cliff Perm.

Note that (1) logic board should be designed for two resident ROMS (only the 40 pin one is presently planned to be used, (2) all 28 and 40 pin IC's should have single sided pin holes with no copper on the component side and no plating through the holes so that components can be removed without destroying the P.C. board, (3) if logic board length approaches the maximum length, the controller connectors will have to be recessed to provide clearance from the power supply board and the transformer.

### 6. POWER SUPPLY BOARD

The power supply board is a single sided P.C. board which is mounted with the components side up. The space allocated for the power supply board is shown on the layout drawing. The length of the power supply board can be extended if the logic board is not made the maximum length. Note that enough space must be left between the two boards.

The power supply board is used as a junction between the transformer and the on-off switch. Thus, all the transformer secondary leads are connected to the power supply board using a 5 pin connector (Magnavox part #181300-6). The output power from the power supply board to the logic board is trans-The output power from the power supply board to the logic board to the mitted by a 5 wire cable with leads soldered into the power supply board. 181013-5

The three lines to be smittled go to and come from the on-off smith through a 6 lead cable which is reldered into the power supply board.

7. CARTRIDGE PRINTED CIRCUIT BOARD

The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 2 28 pin ROMS. The physical constraints for the board are indicated on the drawing. The circuit connections are those described in 5A. An example of the circuit connections using the standard ROM pinout is shown in attached sketch.

### VIDEO GAME SPECIFICATIONS FOR GENERAL INSTRUMENTS

Dr. David P. Chandler

### 1. GENERAL

The objective of the systems engineering task is to develop a program-mable video game which is attractive, versatile, offers sophisticated game play and captivating visual and sound effects, and meets F.C.C. and UL requirements -- all at the minimum cost consistent with these objectives.

### 2. GENERAL INSTRUMENTS RESPONSIBILITIES

The portions of this engineering task for which General Instruments is responsible are:

- A. Circuit development and design, except for the controllers, which are Mattel responsibility. The circuit design is to be separated into three printed circuit boards:
  - (1) Logic board
  - (2) Power supply board
  - (3) Cartridge board
- B. Development of test procedures and equipment to perform:
  - (1) 100% testing of parts delivered by General Instruments to Magnavox.
  - (2) Sampled receiving inspection at Magnavox of General Instrument integrated circuits tested as sets.
  - (3) 100% go-no-go testing of each assembled printed circuit board.
    - (4) Fault isolation testing of failed printed circuit boards.
    - (5) 100% go-no-go testing of assembled systems for use as final inspection at Magnavox and as sampled receiving inspection by Mattel.
- C. Management of preparation for and obtaining F.C.C. approval.

### 3. FUNCTIONAL CHARACTERISTICS

The electrical functional characteristics are most accurately defined

Video Game Specifications for G.I.

March 6, 1978

Page 2

by identifying the major circuit elements to be designed into this system, which are:

- A. 1 1610 CPU
- B. 1 STIC II TV Interface Chip (per spec dated \_\_\_\_\_\_)
- C. 1 20K ROM (40pin) Graphics ROM (GROM)
- D. 512 X 8 RAM Graphics RAM (GRAM)
- E. 1 RA-3-9600 Background RAM, Bus Buffer, and 112 X 16 Scratchpad RAM
- F. 128 X 8 RAM Additional Scratchpad RAM
- G. 1 20K ROM (40Pin) Resident Program ROM
- H. 1 Sound I/O IC
- I. Place for 1 additional 20K (28 Pin) Resident ROM
- J. 1 ASTEC 1284 Modulator, with channel 3-4 select and both color and sound modulated.
- K. 1 or 2 20K ROM (28 Pin) Cartridge Program ROM per Cartridge
- L. All the necessary circuitry (including power supply) to make these work properly

### 4. PHYSICAL CHARACTERISTICS

The physical constraints imposed on the various printed circuit boards are defined by Mattel's drawings: Layout (2609), Layout P.C.B. (2609).

### 5. LOGIC BOARD

All the parts listed in section 3 above except the cartridge ROM(s) are mounted on the logic board. It is a two-sided board with plated through holes, which is mounted with components-side down. The functional interfaces with this board are:

- A. Cartridge (I/O) 22 Pin (0.100 Centers, single sided, part number to be determined) edge connector into which cartridge P.C. board plugs. Note that cartridge housing completely surrounds this connector and the tongue of the logic board as far back as the depth of the connector housing. Signals on this connector are DBO-DB14, 4 control lines, ground, and 2 +5 volt lines. (The cartridge connects +5 volt power back to the logic board.)
- B. Controllers

  (Input)

   Two 9 Pin connectors (Magnavox part # 181254). See layout P.C.B. drawing for desired location. On each connector, pin 1 is ground, pins 2-9 are 8 bit input character going to sound-I/O IC. Pin 2 is least significant bit. Controllers are 8 switches to the ground line with a maximum of 100 ohms series resistance per switch.
- C. Power (Input) 5 pin connector (Magnavox part #181300). See

181293-2205 (3) = 181236-105 toomfores 181013-5 PSRA March 6, 1978
Page 3

layout P.C.B. drawing for desired location. Pin designation left up to General Instruments.

- D. Antennae Cable Phono socket on modulator. RF signal suitable for driving all properly operating T.V.'s through antennae cable and switch (Magnavox part #461218 and ).
- E. Channel Select Slide switch (Magnavox part #160556-2). (Input)
- F. Reset Switch

  (Input)

   Momentary, normally open contacts (Magnavox part #160599-1 and 160599-2). These parts must be attached to circuitry side of P.C. board and may require special holes. Coordinate with Cliff Perry.

Note that (1) logic board should be designed for two resident ROMS (only the 40 pin one is presently planned to be used, (2) all 28 and 40 pin IC's should have single sided pin holes with no copper on the component side and no plating through the holes so that components can be removed without destroying the P.C. board, (3) if logic board length approaches the maximum length, the controller connectors will have to be recessed to provide clearance from the power supply board and the transformer.

### 6. POWER SUPPLY BOARD

The power supply board is a single sided P.C. board which is mounted with the components side up. The space allocated for the power supply board is shown on the layout drawing. The length of the power supply board can be extended if the logic board is not made the maximum length. Note that enough space must be left between the two boards.

The power supply board is used as a junction between the transformer and the on-off switch. Thus, all the transformer secondary leads are connected to the power supply board using a 5 pin connector (Magnavox part #181300-6). The output power from the power supply board to the logic board is transmitted by a 5 wire cable with leads soldered into the power supply board.

### 7. CARTRIDGE PRINTED CIRCUIT BOARD

The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 2 28 pin ROMS. The physical constraints for the board are indicated on the drawing. The circuit connections are those described in 5A. An example of the circuit connections using the standard ROM pinout is shown in attached.

### VIDEO GAME SPECIFICATIONS FOR GENERAL INSTRUMENTS

Dr. David P. Chandler

### 1. GENERAL

The objective of the systems engineering task is to develop a program-mable video game which is attractive, versatile, offers sophisticated game play and captivating visual and sound effects, and meets F.C.C. and UL requirements -- all at the minimum cost consistent with these objectives.

### 2. GENERAL INSTRUMENTS RESPONSIBILITIES

The portions of this engineering task for which General Instruments is responsible are:

- A. Circuit development and design, except for the controllers, which are Mattel responsibility. The circuit design is to be separated into three printed circuit boards:
  - (1) Logic board
  - (2) Power supply board
  - (3) Cartridge board
- B. Development of test procedures and equipment to perform:
  - (1) 100% testing of parts delivered by General Instruments to Magnavox.
  - (2) Sampled receiving inspection at Magnavox of General Instrument integrated circuits tested as sets.
  - (3) 100% go-no-go testing of each assembled printed circuit board.
  - (4) Fault isolation testing of failed printed circuit boards.
  - (5) 100% go-no-go testing of assembled systems for use as final inspection at Magnavox and as sampled receiving inspection by Mattel.
- C. Management of preparation for and obtaining F.C.C. approval.

### 3. FUNCTIONAL CHARACTERISTICS

The electrical functional characteristics are most accurately defined

March 6, 1978
Page 2

by identifying the major circuit elements to be designed into this system, which are:

- A. 1 1610 CPU
- B. 1 STIC II TV Interface Chip (per spec dated
- C. 1 20K ROM (40pin) Graphics ROM (GROM)
- D. 512 X 8 RAM Graphics RAM (GRAM)
- E. 1 RA-3-9600 Background RAM, Bus Buffer, and 112 X 16 Scratchpad RAM
- F. 128 X 8 RAM Additional Scratchpad RAM
- G. 1 20K ROM (40Pin) Resident Program ROM
- H. 1 Sound I/O IC
- I. Place for 1 additional 20K (28 Pin) Resident ROM
- J. 1 ASTEC 1284 Modulator, with channel 3-4 select and both color and sound modulated.
- K. 1 or 2 20K ROM (28 Pin) Cartridge Program ROM per Cartridge
- L. All the necessary circuitry (including power supply) to make these work properly

### 4. PHYSICAL CHARACTERISTICS

The physical constraints imposed on the various printed circuit boards are defined by Mattel's drawings: Layout (2609), Layout P.C.B. (2609).

### 5. LOGIC BOARD

All the parts listed in section 3 above except the cartridge ROM(s) are mounted on the logic board. It is a two-sided board with plated through holes, which is mounted with components-side down. The functional interfaces with this board are:

- A. Cartridge (I/O) 22 Pin (0.100 Centers, single sided, part number to be determined) edge connector into which cartridge P.C. board plugs. Note that cartridge housing completely surrounds this connector and the tongue of the logic board as far back as the depth of the connector housing. Signals on this connector are DBO-DB14, 4 control lines, ground, and 2 +5 volt lines. (The cartridge connects +5 volt power back to the logic board.)
- B. Controllers

  (Input)

   Two 9 Pin connectors (Magnavox part # 181254). See layout P.C.B. drawing for desired location. On each connector, pin 1 is ground, pins 2-9 are 8 bit input character going to sound-I/O IC. Pin 2 is least significant bit. Controllers are 8 switches to the ground line with a maximum of 100 ohms series resistance per switch.
- C. Power (Input) 5 pin connector (Magnavox part #181300). See

March 6, 1978
Page 3

layout P.C.B. drawing for desired location. Pin designation left up to General Instruments.

- D. Antennae Cable Phono socket on modulator. RF signal suitable for driving all properly operating T.V.'s through antennae cable and switch (Magnavox part #461218 and ).
- E. Channel Select Slide switch (Magnavox part #160556-2). (Input)
- F. Reset Switch

  (Input)

   Momentary, normally open contacts (Magnavox part #160599-1 and 160599-2). These parts must be attached to circuitry side of P.C. board and may require special holes. Coordinate with Cliff Perry.

Note that (1) logic board should be designed for two resident ROMS (only the 40 pin one is presently planned to be used, (2) all 28 and 40 pin IC's should have single sided pin holes with no copper on the component side and no plating through the holes so that components can be removed without destroying the P.C. board, (3) if logic board length approaches the maximum length, the controller connectors will have to be recessed to provide clearance from the power supply board and the transformer.

### 6. POWER SUPPLY BOARD

The power supply board is a single sided P.C. board which is mounted with the components side up. The space allocated for the power supply board is shown on the layout drawing. The length of the power supply board can be extended if the logic board is not made the maximum length. Note that enough space must be left between the two boards.

The power supply board is used as a junction between the transformer and the on-off switch. Thus, all the transformer secondary leads are connected to the power supply board using a 5 pin connector (Magnavox part #181300-6). The output power from the power supply board to the logic board is transmitted by a 5 wire cable with leads soldered into the power supply board.

### 7. CARTRIDGE PRINTED CIRCUIT BOARD

The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 2 28 pin ROMS. The physical constraints for the board are indicated on the drawing. The circuit connections are those described in 5A. An example of the circuit connections using the standard ROM pinout is shown in attached.

### VIDEO GAME SPECIFICATIONS FOR GENERAL INSTRUMENTS

Dr. David P. Chandler

1. GENERAL

The objective of the systems engineering task is to develop a programmable video game which is attractive, versatile, offers sophisticated game play and captivating visual and sound effects, and meets F.C.C. and UL requirements -- all at the minimum cost consistent with these objectives. Characteristics

### 2. GENERAL INSTRUMENTS RESPONSIBILITIES

The portions of this engineering task for which General Instruments is responsible are:

- A. Circuit development and design, except for the controllers, which are Mattel responsibility. The circuit design is to be separated into three printed circuit boards:
  - (1) Logic board
  - (2) Power supply board
  - (3) Cartridge board
- B. Development of test procedures and equipment to perform:
  - (1) 100% testing of parts delivered by General Instruments to Magnavox.
  - (2) Sampled receiving inspection at Magnavox of General Instrument integrated circuits tested as sets.
  - (3) 100% go-no-go testing of assembled systems for use as final inspection at Magnavox and as sampled receiving inspection by Mattel.
- C. Management of preparation for and obtaining F.C.C. approval.

### 3. FUNCTIONAL CHARACTERISTICS

The electrical functional characteristics are most accurately defined



Video Game Specifications for G.I. March 6, 1978 (Revised March 8, 1978)

> by identifying the major circuit elements to be designed into this system, which are:

- 1 1610 CPU
- B. 1 STIC II TV Interface Chip (per spec dated C. 1 20K ROM (40pin) Graphics ROM (GROM) Color Chys
- D. 512 X 8 RAM Graphics RAM (GRAM)
- E. 1 RA-3-9600 Background RAM, Bus Buffer, and 112 X 16 Scratchpad RAM
- F. 128 X 8 RAM Additional Scratchpad RAM
- G. 1 20K ROM (40Pin) Resident Program ROM
- H. 1 Sound I/O IC
- I. Place for 1 additional 20K (28 Pin) Resident ROM
- J. 1 ASTEC 1284 Modulator, with channel 3-4 select and both color and sound modulated.
- K. 1 or 2 20K ROM (28 Pin) Cartridge Program ROM per Cartridge
- L. All the necessary circuitry (including power supply) to make these work properly

### 4. PHYSICAL CHARACTERISTICS

The physical constraints imposed on the various printed circuit boards are defined by Mattel's drawings: Layout (2609), Layout P.C.B. (2609).

### 5. LOGIC BOARD

restyphings.

All the parts listed in section 3 above except the cartridge ROM(s) and paut syys are mounted on the logic board. It is a two-sided board with plated through holes, which is mounted with components-side down. The functional interfaces with this board are:

the 22 contactive on the pc Goard are used to interface the single sided cartuals. P.C. board

B. Controllers
(Input) (rightangle header 0,025 "square sins on 0,100 "centers)

22 position el A. Cartridge (I/O) - 22 Pin (0.100 Centers, single sided, part number to be determined) edge connector into which cartridge P.C. board plugs. Note that cartridge housing completely surrounds this connector and the tongue of the logic board as far back as the depth of the connector housing. Signals on this side of the connector are DBO-DB15, 3 control lines, ground, and 2 +5 volt lines. (The cartridge connects +5 volt power back to the logic board.) There are It contact in the other side of the connector. The following signa

- Two 9 Pin connectors (Magnavox part # 181254). See auxilia layout P.C.B. drawing for desired location. On each connector, pin 1 is ground, pins 2-9 are 8 bit input character going to sound-I/O IC. Pin 2 is least significant bit. Controllers are 8 switches to the ground line with a maximum of 100 ohms series resistance per switch.

C. Power (Input) - 5 pin connector (Magnavox part #181031-5). See INTERRUPT OF

(right angle header 0.045" square 50000 in prins on 0.156 centers) maddition to have the five Branch External fleads broughton of the

Ruton

there conti

for futur

MCCR

Taco dame opecitications for G. I. March 6, 1978 (Revised March 8, 1978) Page 3

> layout P.C.B. drawing for desired location. Pin designation left up to General Instruments. G.T.

- D. Antenna Cable (Output)
- Phono socket on modulator. RF signal suitable for driving all properly operating T.V.'s through antenna cable and switch (Magnavox part #461218 and 701702-005).
- (Input)
- E. Channel Select Slide switch (Magnavox part #160556-2). PC beards
- F. Reset Switch (Input)
- Momentary, normally open contacts (Magnavox part #160599-1 and 160599-2). These parts must be attached to circuitry side of P.C. board and may require special holes. Coordinate with Cliff Perry.

Note that (1) logic board should be designed for two resident ROMS (only the 40 pin one is presently planned to be used, (2) all 28 and 40 pin IC's should have single sided pin holes with no copper on the component side and no plating through the holes so that components can be removed without destroying the P.C. board, (3) if logic board length approaches the maximum length, the controller connectors will have to be recessed to provide clearance from the power supply board and the transformer.

### POWER SUPPLY BOARD

The power supply board is a single sided P.C. board which is mounted with the components side up. The space allocated for the power supply board is shown on the layout drawing. The length of the power supply board can be extended if the logic board is not made the maximum length. Note that enough space must be left between the two boards for controlly connectos acceso,

The power supply board is used as a junction between the transformer and the on-off switch. Thus, all the transformer secondary leads are connected to the power supply board using a 5 pin connector (Magnavox part #181013-5). The three lines to be switched go to and come from the on-off switch through a 6 lead cable which is soldered into the power supply board. The output power from the power supply board to the logic board is transmitted by a 5 wire cable with leads soldered into the power supply board.

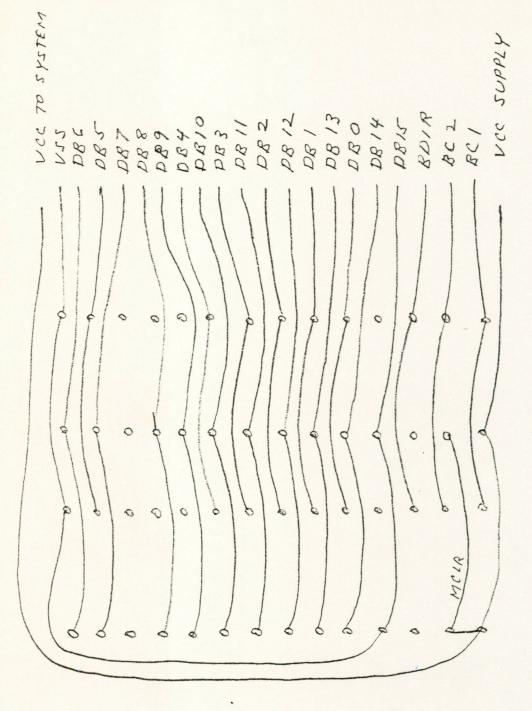
### CARTRIDGE PRINTED CIRCUIT BOARD

The printed circuit board in the cartridge is a single sided board with edge fingers to mate with the connector on the logic board and is designed to mount 1 or 2 28 pin ROMS. The physical constraints for the board are indicated on drawings# . The circuit connections are those described in 5A. An example of the circuit connections using the standard ROM pinout is shown in attached sketch.

DPC/1b

youl shat

D. P. C. YANDLER REVISED 3-8-78



BOARD FROM RONDURIOR (TOP) SIDE, PC CARTRIDGE

( ROMS ARE ON BOTTOM SIDE)



TO:

Distribution

FROM:

Kent Wall

DATE:

May 10, 1978

SUBJECT:

Sales Meeting and CES - June 7-15

This is to outline the schedule for both the Sales Meeting and the Consumer Electronics Show (CES) in Chicago. I have included a list of as many of the coordinating details as can be defined at this time. Please review the attached as it affects your specific area of responsibility and get back to me with any questions and/or problems.

Information on hotel accommodations, etc. will be coordinated directly by Sylvia Meza (Ext. 1852).

SKW:slm

### Distribution:

- A. Adler
- D. Bogart
- A. Carlson
- D. Chandler
- R. Chang
- H. Cohen
- J. Dickerman
- J. Kingsbury
- E. Krakauer
- M. Kuhn
- F. Murnane
- S. Platt
- H. Reekie
- J. Rochlis
- J. Rubenstein
- P. Towne
- S. Verduzco

cc: Steve Goldstein Jeff (Heimbuck Gus Lizzi Missy Powell

## OUTLINE / SCHEDULE

# SALES MEETING AND CES 197

8

EQUIPMENT/RESPONSIBILITY	All booth materials, carpet, furniture, etc. are the responsibility of DGC.	Other requirements include:  - 21" TV set for Video Room in booth	* Stored in Mattel's suite at the Ritz- Carlton Hotel until 6/10.	Booth set up continues by DGC.	Three (3) Las Vegas Pinball Machines (Jim Kingsbury)  - One with arcade graphics set up and working in the suite  - One with arcade graphics and one with woodgrain finish stored in the suite
LOCATION	McCormick Place 23rd and The Lake Chicago, Illinois	Lobby Level, Booth #2055		McCormick Place	Mattel Suite at the Ritz-Carlton Hotel
ACTIVITY	Booth St Up			Booth Set Up	Mattel personnel and equipment arrive throughout the day.
TIME	9:00 A.M.			9:00 A.M.	
DATE	9/9			1/9	

### OUTLINE/SCHEDULE SALES MEETING AND CES 1978

EQUIPMENT/RESPONSIBILITY	Two(2) Video System Emulators (David Chandler) - One set up and working in the suite - One stored in the suite.
LOCATION	Mattel Suite at the Ritz-Carlton Hotel
ACTIVITY	9:00 A.M. Mattel personnel and equipment arrive throughout the day.
TIME	9:00 A.M.
DATE	2/9

## Six (6) Cassettes and Six (6) Cassette Pkgs. (Shel Platt and Allen Adler)

One stored in the suite

emulator

One hooked up in the suite to

Two (2) Decorated Video Consoles (David Chandler and Shel Platt)

- One unit for each cartridge theme decorated and with copy in suite

- Two demo instruction/play books

One (1) Video Console Package (Shel Platt)

- One unit decorated front and back if possible stored in the suite

One (1) Video System In-Store Demo Unit (Lesjay Company)

One (1) Pinball Owner's Manual

One prototype unit set up in the suite

One (1) findali owner s ma (Allen Adler)

- One comp in suite

One (1) Lady Luck Display (LesJay Company)

- One prototype unit in suite

SALES MEETING AND CES 1978 OUTLINE/SCHEDULE

TIME DATE

ACTIVITY

LOCATION

EQUIPMENT/RESPONSIBILITY

1/9

equipment arrive throughout Mattel personnel and the day. 9:00 A.M.

Mattel's Suite at the Ritz-Carlton Hotel

500 Pinball Warranty Statements Stored in the suite (John Dickerman)

500 Lists of GE Service Centers

Stored in the suite (John Dickerman)

Stored in the suite 500 Pinball Press Kits (Joel Rubenstein)

500 Hand-Held Press Kits (Joel Rubenstein)

Stored in the suite

Stored in the suite 200 Video Press Kits (Joel Rubenstein)

50 Demonstrator Scripts for Each

Hand-Held Game (Sylvia Meza) Stored in the suite Six (6) Hand-Held Counter Demo Units (Denny Bogart)

Stored in the suite

12 Units Each Hand-Held Game with Pkgs. (Denny Bogart and Shel Platt) Stored in the suite

10,000 Hand-Held Game Brochures (Denny Bogart and Sylvia Meza) Stored in the suite

### SALES MEETING AND CES 1978 OUTLINE/SCHEDULE

EQUIPMENT/RESPONSIBILITY	3,000 Pinball Brochures (Denny Bogart and Sylvia Meza) - Stored in the suite	2,000 Video System Brochures (Denny Bogart and Sylvia Meza) - Stored in the suite	Electric Company Math Storyboard (Denny Bogart) - Stored in the suite	TV Set and Video Playback Equipmer (Denny Bogartrent in Chicago) - Set up in the suite	One (1) Cassette of Audo/Visual Pr of Video System (Denny Bogart & Hc - Available in suite	All equipment listed for suite und
LOCATION	Mattel's Suite at the Ritz-Carlton Hotel					Mattel's Suite at the Ritz-Carlton Hotel
ACTIVITY	Mattel personnel and equipment arrive throughout the day.					9:00 A.M. Key Account Presentation by Appointment Only
TIME	9:00 A.M.					9:00 A.M.
DATE	1/9				97	0/0

ent

Howard Reekie) Presentation

Presentations (D. Bogart, M. Kuhn, K. Wall, will remain in the suite and be stored out under 6/7 of sight except for the following items which will be set up for Key Account D. Chandler, J. Kingsbury):

- Video System with Football, Space Game, Baseball and Las Vegas PROM set up with one representative frame for Basketball and Math if possible.
  - Las Vegas Pinball One Unite
- One each of hand-held games iwth package One hand-held counter demo unit 1
  - Video Playback Equipment to show TV

EQUIPMENT/RESPONSIBILITY	commercials for Video System, Basketball and Football games and the Video System AV presentations - Video System Prototype In-Store Display - All Video System cassettes and packages - Video Print Ad (mounted) - Pinball Print Ad (mounted) - Video System console package comp - Lady Luck Display Prototype - Pinball Owner's Manual - 100 Salesmen's Brochures for Video, Pinball, and Hand-Held Games - Video System Audio/Visual Presentation	DGC continues booth set up	Same set up and equipment as outlined for 6/8	DGC continues booth set up	Kent Wall, Sharon Verduzco, and Mal Kuhn will train RS personnel on Pinball, and Hand-Held games
LOCATION		McCormick Place	Mattel's Suite at the Ritz-Carlton Hotel	McCormick Place	Mattel's Suite at the Ritz-Carlton Hotel
ACTIVITY		9:30 A.M. Booth Set Up	Key Account Presentations by Appointment Only until noon	9:00 A.M. Booth Set Up	RS Training
TIME		9:30 A.M.	9:00 A.M.	9:00 A.M.	1:00 P.M. to 4:00 P.M.
DATE		8/9	6/9		

DATE	TIME	ACTIVITY	LOCATION	EQUIPMENT/RESPONSIBILITY
6/10	9:00 A.M.	Set Up for Sales Meeting	Ritz-Carlton Meeting Room	Denny Bogart, Kent Wall, Mal Kuhn,
				David Chandler, and Jim Kingsbury will
				move the following equipment from the
				suite to the meeting room:
				- Video System with Football, Space Game,
				Baseball, and Las Vegas PROM set up
				along with representative frames for
				Basketball and Math if possible
				- Three Las Vegas Pinball Machines
				- Three each of all hand-held games
				with packages
				- Three hand-held game counter demo units
				- Video tape playback equipment for TV
				commercials as back up to film system
				and to show A/V presentation on Video
				System
				- *16mm film of Football, Basketball,
				and Video System commercials
				- Lady Luck Display Prototype
				- Video System Prototype In-Store Demo Unit
				- All Video cassettes and packages
				- 200 salesmen's brochures for Video,

Sharon Verduzco will arrange for a 16mm sound projector, 35mm slide carousel unit and a large screen for the Sales Meeting. All price lists, etc. will be the responsibility of Sharon Verduzco and Mal Kuhn. \*NOTE:

Pinball, and Hand-Held games

Electric Company Storyboard 200 Salesmen's Briefcases

SALES MEETING AND CES 1978 OUTLINE/SCHEDULE

EQUIPMENT/RESPONSIBILITY	Attendance by all sales reps plus Ed Kr Mal Kuhn, Kent Wall, Frank Murnane, Jef Sharon Verduzco, David Chandler (or Ric Jim Kingsbury.
LOCATION	Ritz-Carlton Meeting Room
ACTIVITY	1:00 P.M. Sales Meeting Begins
TIME	1:00 P.M.
DATE	6/10

Krakauer, eff Rochlis, ck), and following items will be moved to the McCormick Place booth by Denny Bogart, Jim Kingsbury, At the conclusion of the Sales Meeting the and David Chandler:

Sales Meeting Ends

4:00 P.M.

6/10

- All Pinball machines

except for one set which stays in the All Hand-Held games and packages

All counter demo units for hand-held games except for one which stays in the suite

Lady Luck Display

Video System In-Store Display

All video cassettes, packages, and console package

All press releases except for 10 which remain in the suite

All salesmen's brochures except for 100 which remain in the suite

All price lists and order forms

Video emulators and game programs

commercial, Football and Basketball Video cassettes of Video System

commercials, and Video A/V presentation Pinball and Video System Print ads Brochures of GE Service Center Listings

Pinball Warranty Statements

Pinball Owner's Manual

Electric Company Storyboard

EQUIPMENT/RESPONSIBILITY		Booth manned by Kent Wall, Sharon Verduzco, Mal Kuhn and five RS Personnel	
LOCATION	Ritz-Carlton Meeting Room	McCormick Place	
ACTIVITY	4:05 P.M. Cocktail Party for Reps	CES Begins	6:00 P.M. Show Ends
TIME	4:05 P.M.	6/11-14 9:00 A.M.	6:00 P.M.
DATE	6/10	6/11-14	

All equipment is packed and returned to Hawthorne or New York.

6/15