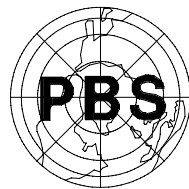# PATTERN DESIGNER VERSION 8.0

Pattern Designer is the ultimate in blasting pattern design for efficient delay timing to minimize vibration and to visualize how blasting patterns truly function. The software will quickly calculate firing times and check blasting patterns for SURFACE AND UNDERGROUND ROUNDS and for square or staggered patterns. Versions are available for electric initiation and non-electric initiation. The universal version handles both electric and non-electric. No other software has our quick-to-load pattern libraries or build-your-own pattern capabilities.
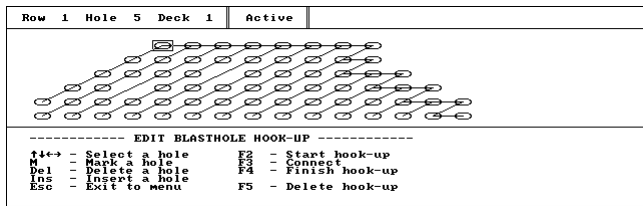
The software can work with up to 40 holes per row, 10 rows and 10 decks per hole. Patterns can be irregularly shaped, with lost holes anywhere in patterns. The software allows the user to quickly find timing overlaps of any number of holes and determine the PROBABILITY of such overlaps. For example, one may allow 5 holes to overlap. What is the probability of 6 holes overlapping, and where are they located? No other software has this capability. The software also shows animated firing of the patterns and decks.

A pattern design report can be produced on the printer. One can design an infinite number of patterns quickly and easily. These patterns can be saved for future convenience. Many pattern libraries are available for fast and easy pattern design and analysis.

The software works with both U.S. and Metric units of measure and is available in English or Spanish.
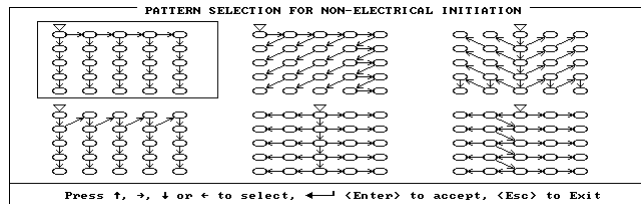
```
----------- EDIT BLASTHOLE HOOK-UP -----------
↑↓←→ - Select a hole      F2  - Start hook-up
M    - Mark a hole         F3  - Connect
Del  - Delete a hole       F4  - Finish hook-up
Ins  - Insert a hole
Esc  - Exit to menu        F5  - Delete hook-up
```
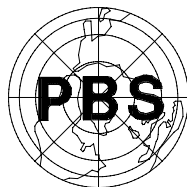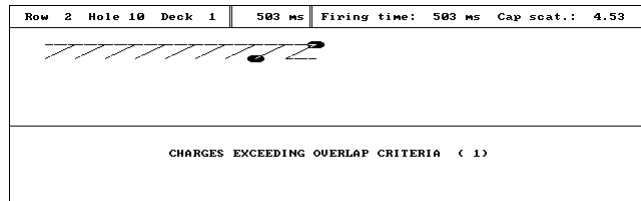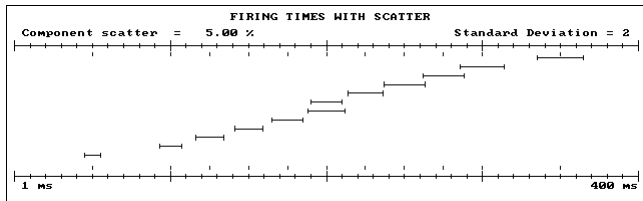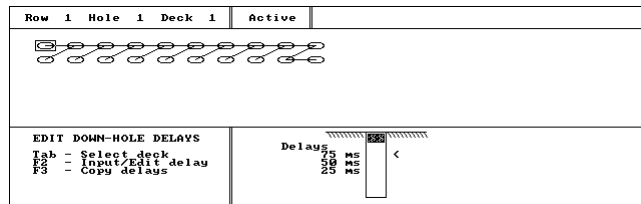
Design any pattern with Electric or Non-Electric Initiation up to 40 holes per row, 15 rows and 10 decks per hole.

Totally flexible and universal.

Use the convenient PATTERN LIBRARIES for quick entry and editing of complex patterns. Each library contains six different patterns.

```
PATTERN SELECTION FOR NON-ELECTRICAL INITIATION

Press ↑, →, ↓ or ← to select, ←┘ <Enter> to accept, <Esc> to Exit
```

A unique feature allows the user to define how many charges may overlap without causing problems. The program will determine overlaps if they exceed the criteria entered by the user. The probability of overlap, when calculations include cap scatter (tolerance) is also reported.

```
Row 1 Hole 1 Deck 1 │ Active │

EDIT DOWN-HOLE DELAYS
Tab - Select deck          Delays
F2  - Input/Edit delay              75 ms   <
F3  - Copy delays                   50 ms
                                    25 ms
```

```
FIRING TIMES WITH SCATTER
Component scatter =  5.00 %           Standard Deviation = 2

1 ms                                              400 ms
```

```
Row 2 Hole 10 Deck 1 │ 503 ms │ Firing time: 503 ms Cap scat.: 4.53

CHARGES EXCEEDING OVERLAP CRITERIA ( 1)
```

PRECISION BLASTING SERVICES
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