

# BES Systems Ltd.

## ***TPQ-36/37 Radar Shelter Improvements***

**Radar Control System (RCS)** modernization suit for the TPQ-36/37 Radar shelter combines the following operational and maintenance improvements:

### ***Operational Improvements***

#### ***Enhanced Target positioning***

- ◆ Better Accuracy
- ◆ Shorter Time Response
- ◆ Fully Automated Process
- ◆ Additional Radar Zones.

#### ***User Friendly Operation***

- ◆ Windows 2000 based operation using menus and Graphic User's Interface (GUI).
- ◆ Maximizing system utilization while minimizing the learning process.
- ◆ Results displayed on two large monitors replacing the Drum. Site coordinates and time derived from an integral GPS receiver.
- ◆ Eliminating the Cassettes.

#### ***Speeding Setup Time***

Minimize setup time & human errors.

- ◆ Fully automated radar initialization
- ◆ Pre defined initialization screens:
  - ⇒ Radar constants
  - ⇒ Initial. parameters

#### ***Improved Height Correction***

- ◆ Fully automated Height Correction ( no hands on)
- ◆ Higher resolution calculation based on a digital map (Level I or Level II DETED map)
- ◆ Extended DTEM Area Coverage.

### ***Dual Work Stations***

Displaying the following layers:

- ◆ Topographical map.( Drum Replacement)
- ◆ DTEM map.
- ◆ Friendly and Enemy zones.
- ◆ Menus and MMI screens
- ◆ Target display

### ***New C2 interface Capability***

- ◆ Real time & Reliable "Big Picture"
- ◆ Preparing initial set up on the move
- ◆ C2 designated Radar Zones
- ◆ Additional Target Filtering Logic
- ◆ Future growth capability

### ***"On the Move" Operation***

- ◆ Connection to C2 on the move
- ◆ shorter "Initialization" process

### ***Recording and Debriefing***

- ◆ **Recording:** Radar picture, Operator's Switch Actions for offline debriefing & training
- ◆ **Debriefing.:** Playback of the recorded data for faster learning
- ◆ Improved operator performance
- ◆ Error correction for friendly battery loca-



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## *Maintenance Improvemnts*

### *Modernization, Replacing obsolete Units :*

- ◆ **Drum** - Two Work Stations 15 "LCD Displays
- ◆ **Printer** - Printer data displayed on LCD Display.
- ◆ **Raymond cassette** - Emulated by PC computer.
- ◆ **B Scope** - New Flat Display
- ◆ **WLU - keypad, displays & switches**- Full operation using Windows 2000 Menus and Mouse.

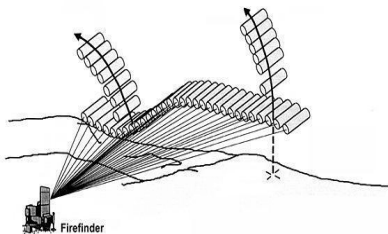
### *RCS provides improved reliability*

- ◆ 4000 Hours MTBF
- ◆ Enhanced Maintainability, less than 1 Hour MTTR
- ◆ Lower life cycle cost
- ◆ Short instalation time
- ◆ Full compatability with re-placed items
- ◆ System based on COTS building blocks
- ◆ Full ILS Package
- ◆ Long term spare support
- ◆ Simple future upgrades HW & SW
- ◆ Improved redundancy



### *Open Arcitecture*

- ◆ Windows 2000 Environment.
- ◆ API & software hooks for customer own use.
- ◆ Adaptive to customer future requirements.



## *TPQ 36/37 Upgrade*



- ◆ Modern Operational Capabilities
- ◆ Minimum Turn Arround Time (TOT)
- ◆ More accurate Target designation
- ◆ Automatic operation
- ◆ Minimum setup time
- ◆ User Friendly Operation
- ◆ Modern C2 interface
- ◆ Recording & Debriefing capability
- ◆ Extensive growth potential
- ◆ Short and simple instalation
- ◆ Improved Reliability
- ◆ Enhanced Maintainability
- ◆ COTS HW/SW building blocks
- ◆ Lower Life Cycle cost
- ◆ Flexible for user defined changes
- ◆ Upgrade improved by Raytheon
- ◆ International customer base

Some Details specified in this document may change without notice. Contact BES for latest update

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