ROCS for TPQ-36/37 Radars

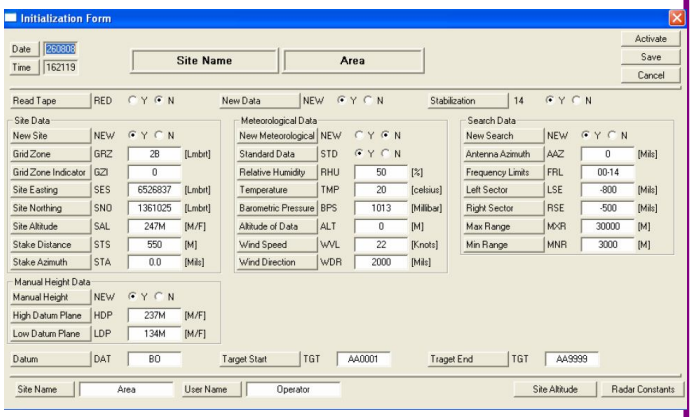
TPQ-36/37 radars, fielded in 1981, are excellent battlefield proven Radar Systems. BES Electronic Systems' Radar Operational Control System (ROCS) digital Processors and Firestar Software revive these outstanding radars with most advanced computer technology at a minimum of cost.

TPQ-36/37 radars operating around the world, have no Digital Maps needed for 'Automatic Height Correction (AHC) capability. Therefore, radar Operators must use the WLU DRUM and a paper map and perform Manual Height Correction, in order to accurately locate enemy Mortars and Artillery. Manual Height Correction is time consuming process that limits the number of detected Weapons to 2-3 per minute. Moreover the existing AHC function does not exploit the full detection capability of the radar. The User must process each target before relaying its coordinates (voice or via TACFIRE). This slows down the number of

ROCS Salient Features

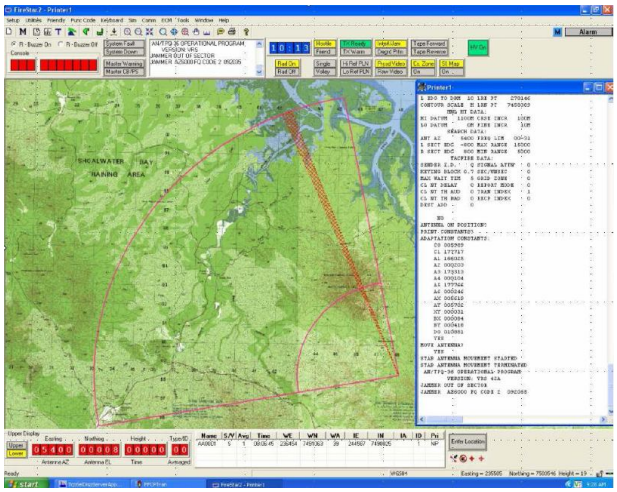
- ROCS is a Windows XP Embedded System with Electronic maps, graphical displays and Menus.
- TPQ-36/37 Radar with a ROCS Upgrade can locate, display and communicate 10 and more Weapons per minute.
- Radar with ROCS uses DTED Level-II for better accuracy of weapon locations.
- Automatic Initialization. High-speed radar programs loading from ROCS computer. (Raymond Cassette is removed).
- B Scope picture is displayed on each LCD screen.
- ROCS is made of six unique LRUs with three state of the art computers/processors.
- Radar Shelter with two built-in Work-Stations. Additional operators can join with their Notebooks
- DRUM is replaced with two LCD screens. Weapon Locations and impacts are displayed on electronic map.
- Custom-made C2 protocol (replaces TACFIRE), to communicate radar data and targets to remote Users such as Command & Control, batteries, etc

TPQ-36/37 with ROCS



Initialization Screen

- TPQ-36/37 Radar with ROCS can store 500 Weapons (99 targets in the legacy system).



Jammer Display

ETI Services Inc. CAGE CODE: 1PZ92

1400 N Jefferson St., Anaheim CA. 92807 Tel: +1-714-524-2986,

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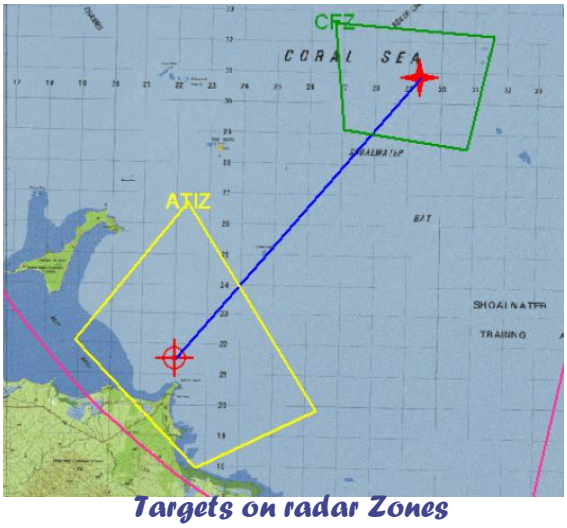
ROCS for TPQ-36/37 Radars

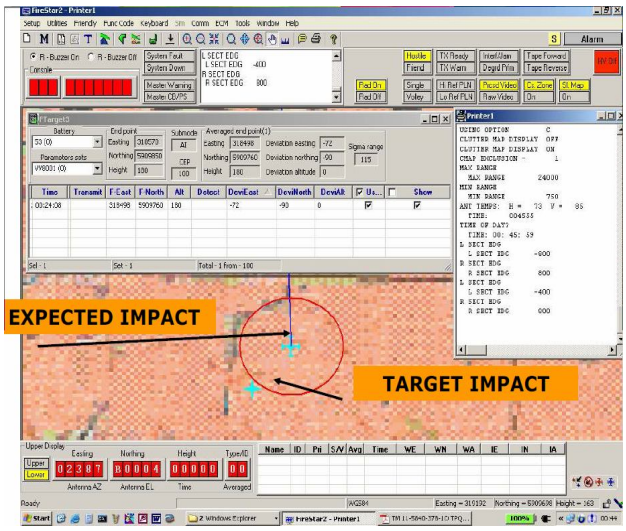
ROCS Features (continued)

- ROCS provides unlimited number of Artillery Zones with four priorities.
- Radar with ROCS can store unlimited number of Batteries and friendly rounds.
- ROCS supports various digital maps, such as; Geo-TIFF, Shape files, CADRG, etc'.
- Radar with ROCS can be operated from a remote Notebook using LAN.
- ROCS is built for multi Users Operation.
- Existing Shelter 28DC power supply has limited power (17Amps). ROCS includes a 40 Amps Power Supply/UPS and Battery Bank Charger.
- Radar activity Recording for later debriefing.
- Radar with ROCS can use maps based on various Datum and output Weapon locations and impacts in any coordinate system.
- High speed AHC using DTED Level II (30 meters between elevation points) to enhance accuracy of weapon location process.
- Automatic Initialization. High-speed radar programs loading from ROCS computer. (Raymond Cassette is removed)
- Shelter can be unmanned. Shelter remote Control using Notebook via LAN.
- 'On The Move Operation'.
- Jammer display



Targets on radar Zones

- Raymond Cassette, B-Scope, and Drum Assemblies are removed from the radar Windows XP interface, menus, screens and electronic maps.
- Changing the radar search sector would not require reload of Digital Map.
- Full operation and connectivity via radios to Batteries or Command & Control System when radar is on the move.
- Shelter GPS for updating Command & Control during 'On The Move'.
- Optional TDMA Datalink. Optional Communication via analog, digital radios, SATCOM and leased line.



Registration of Friendly Targets

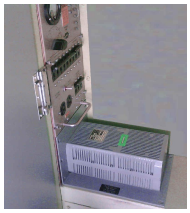
PJU

PSU

ROCSP

BSR

WRB



DMKP

ROCS LRUs

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