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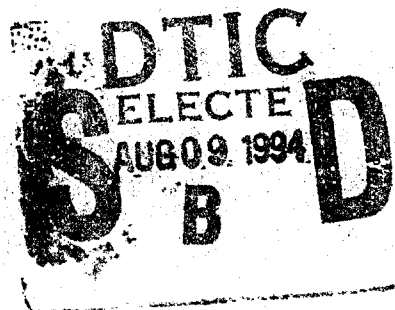
Management Command and Control

Volume II of II: SIMNET/Masscomp Host  
MCC

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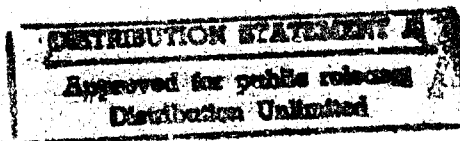
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## **I Scope.**

### **I.1 Identification.**

The purpose of this manual is to provide the basic information necessary to operate the SIMNET Management, Command and Control system, or SIMNET MCC. This system is made up of several different SIMNET elements, all of which may be started off of the BattleMaster's station SIMNET Control Console (SCC).

### **I.2 System Overview.**

The system needed for the SIMNET Battle Simulation includes:

- A SIMNET network like that at Fort Rucker (Site 4).
- A Masscomp computer running the 1.0.0 Masscomp MCC with a Macintosh Bridge console, a 1.0.0 SIMNET Control Console (SCC), a 1.0.0 Admin/Log Macintosh Console (ALOC), a 1.0.0 Maintenance Console (MAINT), a 1.0.0 Close Air Support Console (CAS), a 1.0.0 Fire Support Element (FSE), and a 1.0.0 Combat Engineering Console (CEC). Macintosh Consoles can also be used in AIRNET exercises.
- (Optional) A data logger to capture the PDUs sent between the MCCs and the vehicles.
- (Optional) A PVD to see the vehicles on the SIMNET network and their positions on the terrain. The PVD is also recommended for determining the UTM coordinates on which to place the vehicles. Additionally, the PVD can optionally provide the "X" and "Y" coordinates during testing and research exercises.

### **I.3 Document Overview.**

This manual contains the operating instructions for the SIMNET MCC, which includes the SIMNET Control Console, the Close Air Support Console, the Fire Support Element Console, the Admin/Log Console, the Combat Engineering Console, and the Maintenance Console.

The remainder of this document is organized as follows:

- Section 2, **Referenced Documents**, identifies all of the documents that are included in this document by reference or that provide additional information to support the MCC operational procedures described herein.
- Section 3 describes the MCC Workstation Screen conventions.
- Section 4 describes the hardware, software and other requirements to support battle exercise simulation.
- Section 5 describes the SIMNET Control Console (SCC).
- Section 6 describes the Close Air Support Console (CAS).
- Section 7 describes the Fire Support Element Console (FSE).
- Section 8 describes the Admin/Log Console (ALOG).
- Section 9 describes the Combat Engineer Console (CEC).

- **Section 10 describes the Maintenance Console (Maint).**
- **Section 11, Notes, provides additional information to aid in the understanding of the SIMNET MCC system. It also includes a list of acronyms and definitions of terms used in this document.**
- **Appendix A provides the SIMNET MCC Screens flow diagrams.**

## 2 Referenced Documents.

The following documents are referenced in this document or provide supplementary information that will be useful in understanding the SIMNET MCC's operations.

### 2.1 MCC-Related Documents.

Reconfigurable MCC. (June 26, 1992). BBN Report No. 7734, BBN.

The SIMNET Management, Command and Control System. (March 1987). Report No. 6473, Bolt, Beranek and Newman.

The Software Requirements & Interface Specification for the AIRNET MCC Comanche Support and Digital Message/Communications Upgrade. (December 18, 1992).

Combat Engineer MCC Console Operations Documentation. (February 5, 1991). Perceptronics, Inc.

Management, Command and Control System Operations Documentation. (March 15, 1990). Illusion Engineering, Inc.

### 2.2 SIMNET-Related Documents.

The SIMNET Network Protocols. (June 1991). Report No. 7627, Arthur R. Pope, Prepared for DARPA by Bolt, Beranek and Newman, Inc.

## **MCC Console Screen Conventions.**

The SIMNET MCC has been designed to minimize the use of computers, and does not require you to have technical computer skills. The consoles do, however, require entry of information into the computer. You will be prompted and guided through all steps necessary in the entry of such information.

To use this system, you will need to recognize a few of the components of a Macintosh. You will use three basic pieces of equipment: 1) the computer screen display; 2) the keyboard; and 3) the "mouse" - the hand-held device used to manipulate the pointer.

As you continue through this manual, you will be instructed to "select," "click on," or "double click" using the mouse. You will find that the pointer (called a cursor) responds instantly to movements you make with the mouse. You will have the best control of the mouse if you hold the mouse with its cable pointing away from you, and your index finger on or above the mouse button. When you run out of room on the table, or want to get the mouse into a more comfortable position, simply pick it up from the surface of the table, and put it down again where you want it.

To select an item on your screen, move the mouse in exactly the same way you want the cursor to move. When you have reached the point on the screen that you want, making sure that the point of the cursor is located on the item, push the mouse button to "select" it. This action is called "clicking." Clicking once is usually required in the SIMNET operations, but sometimes you will be instructed to "double click" for a different operation. To do this, press your mouse button twice, fast.

In each one of the following sections, you will be shown pictures of the computer screens that apply to your task. Along with these figures, a step-by-step instruction guide will explain the procedure necessary to inform the computer of what, where, when, and how you want it to do things. Each button or blank shown on the screen will be described below the figure, and an explanation of any choices to be made will be furnished, if necessary. Follow the instructions in sequence. They will prompt you through all the steps needed to enter information.

### **3.1 Console and Screen Title.**

Many screens on the SIMNET MCC console include a title in the title bar. This title is the name of the function that is to be performed and is worded identically to the function listed in the Overview Menu.

### **3.2 Previous Option.**

In the Initialization screen, each of the successive initialization screens contains a Previous button. Clicking this button brings back the previous screen in the current initialization sequence.

### **3.3 Next Option.**

Each of the successive initialization screens also contains a Next button. Clicking the Next button causes the MCC program to store the entries made on a screen and bring up the next screen in the initialization sequence.

### **3.4 OK Option.**

Throughout the initialization and operation phases of the simulation exercise, detailed data boxes will superimpose over various MCC screens. In each case, these data boxes offer an OK button at the lower right of the dialog box. The OK button is highlighted with a heavy outline, indicating that the function can also be performed by pressing the RETURN key on the keyboard. Clicking the OK button informs the MCC software that the user is satisfied with the data entered in the dialog box.

### **3.5 Data Entry into Boxes.**

Many MCC screens require that information and data be entered into boxes. On all such screens, as opposed to the screens where selections are made only by clicking, the MCC program brings up the screen with default data entered (if available) and with the cursor positioned in the first data box. The operator is able to enter or change data in each box successively by using either the TAB key on the keyboard or the mouse. Successful operations will result in completion of data entry in all boxes. The MCC console operator can position the cursor in any box with the mouse.

### **3.6 Help Option.**

Each of the successive initialization screens also contains a Help button. For each screen, a dialog message provides instructions for completing the screen at hand for the individual performing initialization. These dialog screens are programmed to appear superimposed over the screen at hand when the Help button is clicked, as shown in Figure 3.6-1.

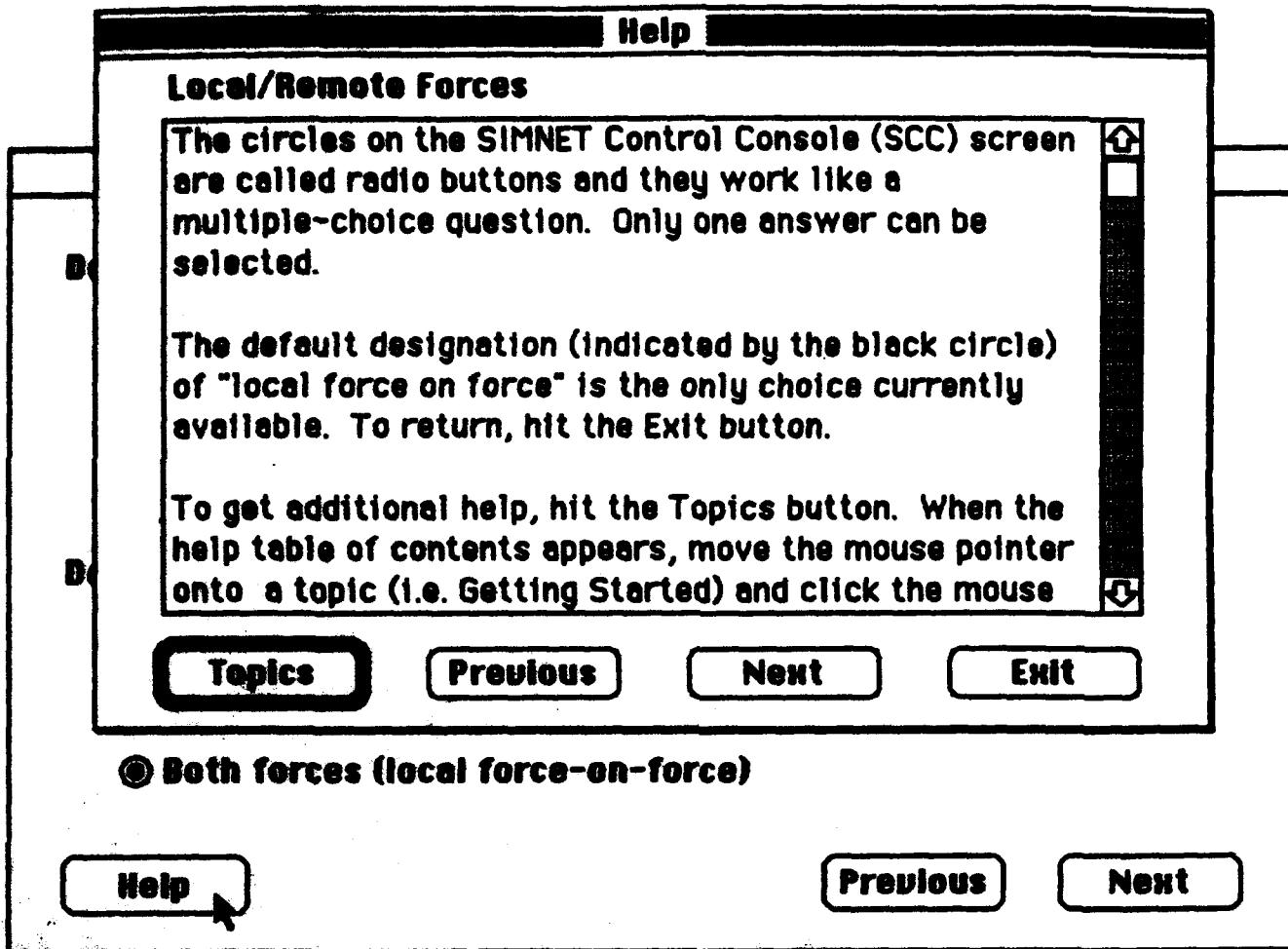


Figure 3.6-1. Help Screen



4 Operation Preparations.

4.1 Hardware Preparation.

Figure 4.1-1 shows the equipment configuration for the SIMNET MCC system.

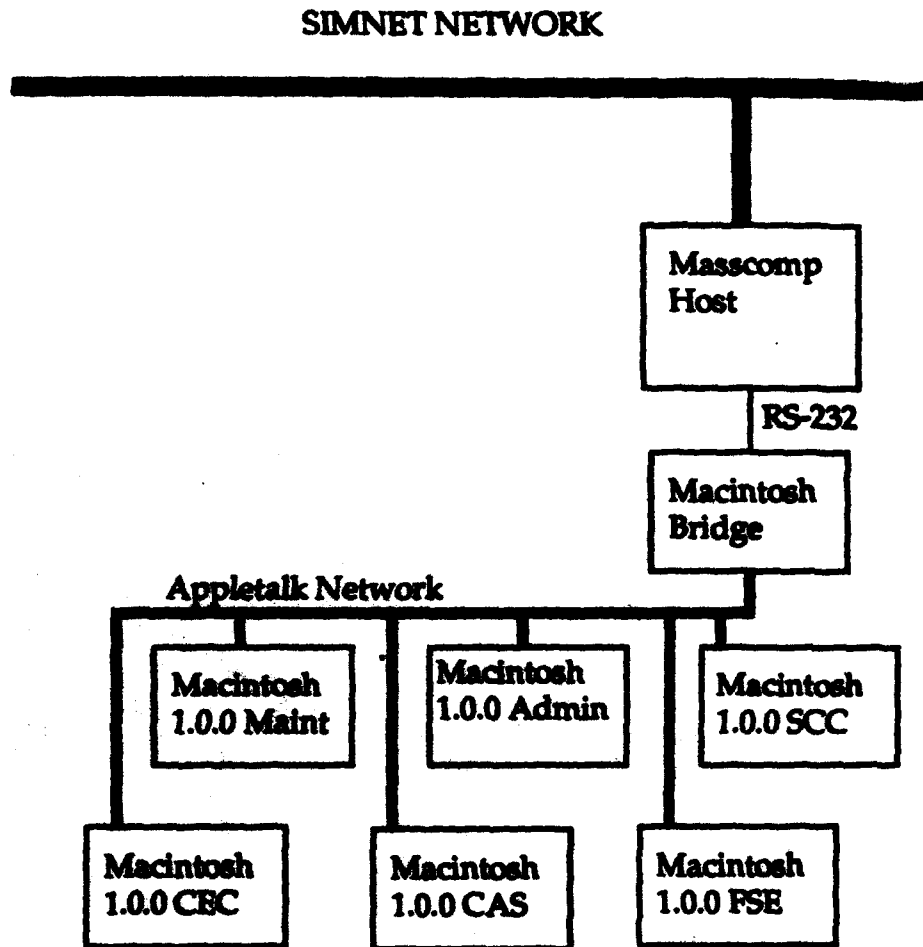


Figure 4.1-1. MCC System Top Level Hardware Configuration

#### 4.2 Software Preparation.

The following software must be specifically configured to support the SIMNET MCC Simulation:

- Macintosh SCC console software version 1.0.0
- Macintosh CAS console software version 1.0.0
- Macintosh ALOG console software version 1.0.0
- Macintosh CE console software version 1.0.0
- Macintosh FSE console software version 1.0.0
- Macintosh MAINT console software version 1.0.0
- Macintosh OS : preferably version 6.0.5.
- Shiva FastPath Manager II
- Shiva K-STAR version 8.0.1

#### 4.3 Other Preparations.

The following databases must be available to support the MCC AIRNET Simulation:

Fort Knox database - 08/14/90

Hunter-Liggett - 09/28/90

NTC database

#### 4.4 Masscomp Initialization.

The following steps must be accomplished to initialize the Masscomp.

- a. Start up the Macintosh SCC Console software by double clicking on the SCC AT icon.
- b. Start up the other Macintosh Consoles by double clicking on the "XXX" AT icon.

#### NOTE

All consoles should display a dialog box saying "This "XXX" Console is not currently used in this exercise" (where "XXX" is the name of the console).

- c. On the Masscomp, type `cd /simnet/bin.`
- d. Type `/MCC` to Execute the executable MCC which restarts ringstart and starts up all of the Masscomp MCC processes.
- e. The Macintosh SCC AT Initialization screen should come up after several seconds. If not, check the Masscomp MCC to ensure that it is functioning.

## 5 SIMNET Control Console.

The SIMNET Control Console (SCC) is located at the BattleMaster station. It is used to control the initialization, allocation, and placement of simulators, and the initialization of both the Administration and Logistics Center and the Tactical Operations Center (TOC). It is also used to initialize Close Air Support, Combat Engineer, Fire Support, and Combat Service Support Maintenance. All BattleMaster functions, including Displacement, Reconstitution, Resupply, Close Air Support, and allocation of gunnery targets also take place from this console.

### NOTE

Close Air Support and Fire Support is initialized from the SCC. It is controlled at the CAS and FSE terminals in the TOC.

### 5.1 Exercise Initialization.

Initialization is a structured procedure that is used to start an exercise. It is the first computerized task of a SIMNET exercise. Initialization is accomplished from the SIMNET Control Console (SCC). The BattleMaster is responsible for operating this system; however, participating commanders and their staff provide the input required for initialization.

Before you begin the initialization procedure, you will need to know the following:

- **Location** - the geographic area in which the exercise is to take place (the Terrain Database to be used)
- **Task Organization** - the assignment of offensive forces and defensive forces.
- **Start Location** - the six or eight digit coordinates, with grid designators, for all participating forces/units.

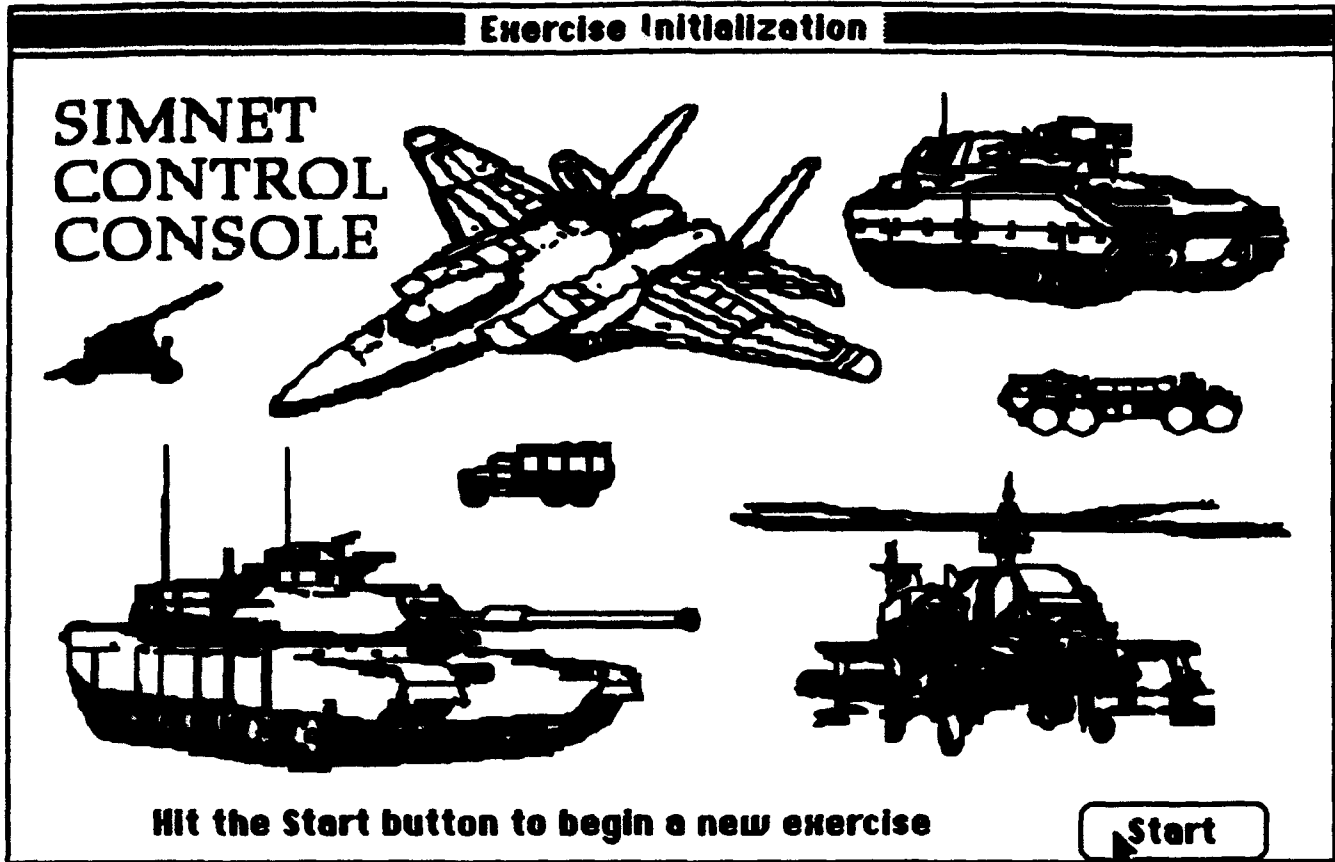


Figure 5.1. SIMNET Control Console Opening Screen

Figure 5.1 is the beginning screen of the initialization process.

Click on the Start button to begin the exercise initialization.

## 5.2 Designate Exercise Type.

There are two options in designating the type of exercise that is desired for training. By choosing one of these two possible exercise types, you will determine how each force sees its own vehicles and how it sees the opposing vehicles. The SIMNET concept of visibility is as follows:

You are given the six vehicles A, B, C, D, E, and F. Of these six, A and B are designated as U.S., C and D are designated as Soviet, and E and F are designated as Observers.

In the first option, "A force of simulated US vehicles versus a force of simulated Threat vehicles," there are two opposing forces (and sometimes observer vehicles that do not fight). This option requires operator selection.

- A and B see each other as friendly, U.S. vehicles. They see C and D as enemy, Soviet vehicles. They see E and F as friendly, U.S. vehicles.
- C and D see each other as friendly, Soviet vehicles. They see A and B as enemy, U.S. vehicles. They see E and F as friendly, Soviet vehicles.
- E and F see each other as U.S. vehicles. They see C and D as Soviet vehicles. They see A and B as U.S. vehicles.

The second option (defaulted), "Two forces, each viewing themselves as U.S. and their opponents as Threat," allows either force to see its own vehicles as U.S. shaped vehicles and the opposing force vehicles as Threat. This situation guarantees that the U.S. troops being trained will never see U.S. vehicles as targets. In this version of SIMNET, forces are referred to as Offense and Defense, not U.S. or Threat.

A and B are designated as Offense, C and D are designated as Defense, and E and F are designated as Observers.

- A and B see each other as friendly, U.S. vehicles. They see C and D as enemy, Soviet vehicles. They see E and F as friendly, U.S. vehicles.
- C and D see each other as friendly, U.S. vehicles. They see A and B as enemy, Soviet vehicles. They see E and F as friendly, U.S. vehicles.
- E and F see each other as U.S. vehicles. They see C and D as Soviet vehicles. They see A and B as U.S. vehicles.

**Exercise Initialization**

**Designate the type of exercise:**

- A force of simulated US vehicles versus a force of simulated Threat vehicles
- Two forces, each viewing themselves as US and their opponents as Threat

**Designate the force(s) being supported by this MCC system:**

- Defense
- Offense
- Both forces (local force-on-force)

HelpPreviousNext

Figure 5.2. Exercise Initialization

**Option 1 ("A force of simulated US vehicles versus a force of simulated Threat vehicles"):**

Although the second option (discussed later) will automatically appear as already chosen, the option above may be selected by operator input.

- Step 1:** Select the top circle to allow the vehicles to view themselves as U.S. (brown) vehicles or Threat (green) vehicles.
- Step 2:** Click to select the "Designate the force(s) being supported by this MCC system."

**NOTE: "Absolute" Mode**

The selection of Option 1 places the exercise in "Absolute" Mode. This results in slight variations in many of the initialization screen which are described in this manual. The Alignment choices of "Defense, Offense and Shared" are replaced by Alignment choices of "US or Threat."

**Option 2 (Two forces, each viewing themselves as U.S. and their opponents as Threat):**

**Step 1:** Select the second circle to allow all vehicle to view themselves as U.S. (brown) vehicles and opponents as Threat (green) vehicles.

This option will appear as an already filled in "default" screen. It will also automatically designate force support as Both forces discussed below.

**Step 2:** Click to select the "Designate the force(s) being supported by this MCC system."

**NOTE: "Relative" Mode**

The selection of Option 2 places the exercise in "Relative" Mode. The screens described in this manual reflect the Relative mode. In the Relative mode, the Alignment choices are "Defense, Offense and Shared."

Click on the Help button to see an index of available help options on the SIMNET Control Console.

Click on the Previous button to see the screen shown prior to the currently displayed screen.

Click on the Next button to see the next screen in the initialization process. Select this button when you are ready to go on with the initialization process.



**5.3 Terrain Selection.**

**Exercise Initialization**

**Select one of the following areas for the exercise**

NTC

Ft. Knox

Hunter Liggett

**The SW corner of this exercise area is at ES450550**  
**The NE corner of this exercise area is at FT200050**

**The map sheets describing this exercise area are**  
**Series U 753; Kentucky; sheets 3759 I & II, 3959 III & IV**

Figure 5.3. Terrain Selection

To "Select one of the following areas for the exercise:"

Click to select the terrain database for the exercise. The appropriate SW and NE corner coordinates and map sheets for the exercise will then be displayed.

Click on the Next button to bring up the Exercise Element initialization screen 1, as shown in Figure 5.4-1.

Click on the Previous button to return to Figure 5.2.

**5.4 Elements Selection.**

**Exercise Initialization**

**Indicate the local elements to be included in this exercise:**

- Tactical Operations Center (TOC)**
- Administration/Logistics Center (Admin/Log)**
- Battalion Headquarters Tank Section**
- Scout Platoon**
- Stealth Jeep**

**Help** **Previous** **Next**

**Figure 5.4-1. Exercise Elements 1**

To "Indicate the local elements to be included in this exercise:"

All possible options will automatically appear as selected. If you wish to eliminate one or more elements, click the box for each selection added or omitted from the exercise. The first click will eliminate the X, and a second click will add the X. By selecting an item, each element with an X in the box will be available for the exercise, although you may not need it.

Click on the Next button to bring up the Exercise Element initialization screen 2, as shown in Figure 5.4-2.

Click on the Previous button to return to Figure 5.3.

**Exercise Initialization**

**Indicate the local elements to be included in this exercise:**

**Air Liaison Officer (ALO)**

**Combat Service Support (CSS)**

**Combat Engineer Element**

**Fire Support Element (FSE)**

Number of howitzer batteries

Figure 5.4-2. Exercise Elements 2

To "Indicate the local elements to be included in this exercise:"

All possible options will automatically appear as selected. If you wish to eliminate one or more elements, click the box for each selection added or omitted from the exercise. The first click will eliminate the X, and a second click will add the X. By selecting an item, each element with an X in the box will be available for the exercise, although you may not need it.

To indicate the "Number of howitzer batteries:"

The number of howitzer batteries automatically appears as 1. If you require more than 1, click the mouse twice to highlight the small window, and then type in the desired number of howitzer batteries.

**NOTE**

A maximum of 3 howitzer batteries may be used.

Click on the **Next** button to bring up the Default Company Selection screen as shown in Figure 5.5.

Click on the **Previous** button to return to Figure 5.4-1.

**5.5 Company Selection.**

<b>Exercise Initialization</b>				
<b>Specify the participation of each company in this exercise:</b>				
	<b>Non-Participant</b>	<b>Defense</b>	<b>Offense</b>	<b>Mixed</b>
<b>A Company</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
<b>B Company</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
<b>C Company</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
<b>D Company</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

**Help** **Previous** **Next**

Figure 5.5. Default Company Selection

The configuration shown here appears when Option 2, "Two forces, each viewing themselves as US and their opponents" and "Both Forces," has been chosen. Mixed participation allows the alignment to be selected for each simulator.

Click to select the company participation for the exercise.

Click on the Next button to bring up the Initialization Status confirmation screen, as shown in Figure 5.6.

Click on the Previous button to return to Figure 5.4-2.

#### 5.6 Initialization Confirmation.

**Exercise Initialization**

**You have entered the basic set of parameters required for initializing an exercise.**

**Click OK to start the exercise.**

**Click Previous to go back and change any parameters.**

**Click Cancel if you do not wish to start the exercise at this time.**

**NOTE: Once you have clicked OK these parameters cannot be changed.**

Figure 5.6. Initialization Confirmation

Click on the OK button to start the exercise and to bring up the Initialization Menu, as shown in Figure 5.7.

Click on the Previous button to return to Figure 5.5.

Click on the Cancel button to return to Figure 5.1.

### 5.7 Complete Exercise Initialization.

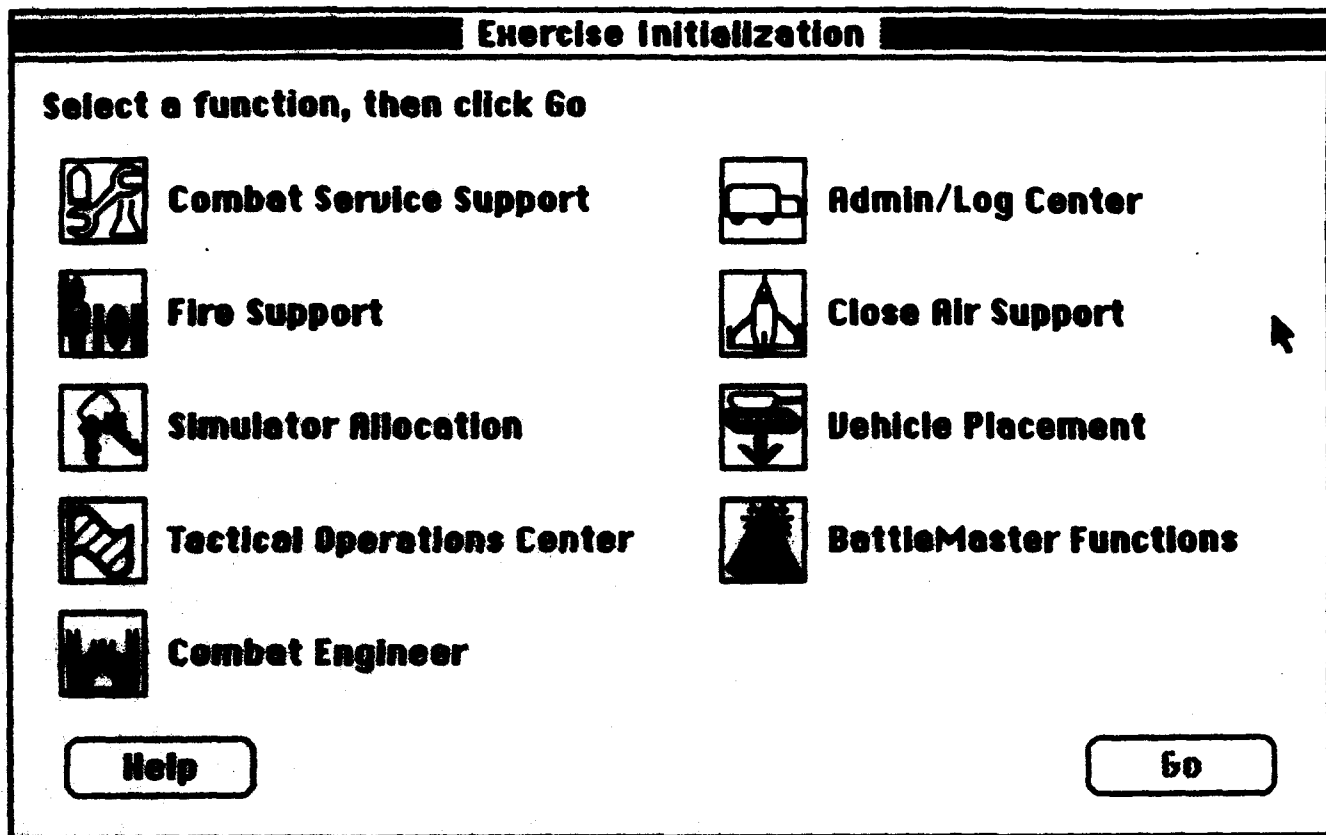


Figure 5.7. Initialization Menu

The Initialization Menu, shown in Figure 5.7, will appear at the end of the Exercise Initialization process. Its purpose is to group force element initialization into specific functional areas to ensure that all data necessary for the simulation exercise is input to the SIMNET MCC program in an orderly manner. Note that the function icon is "boxed" when it has been selected. From this step, proceed on to the next Initialization sequence by clicking the cursor on the Go button.

## 5.8 Combat Service Support Initialization.

This section describes how to initialize the "Combat Service Support" assets and how to place them in their starting positions for the training exercise.

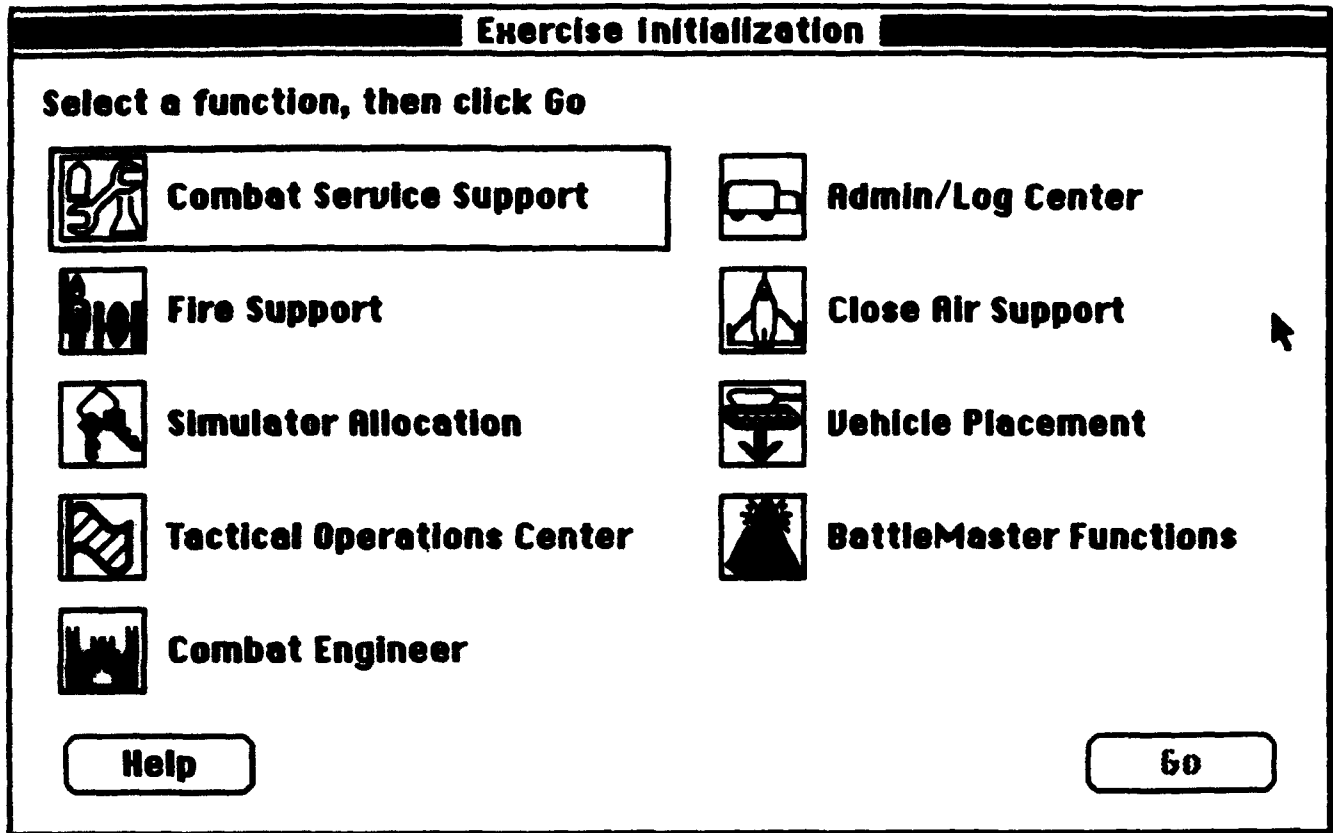
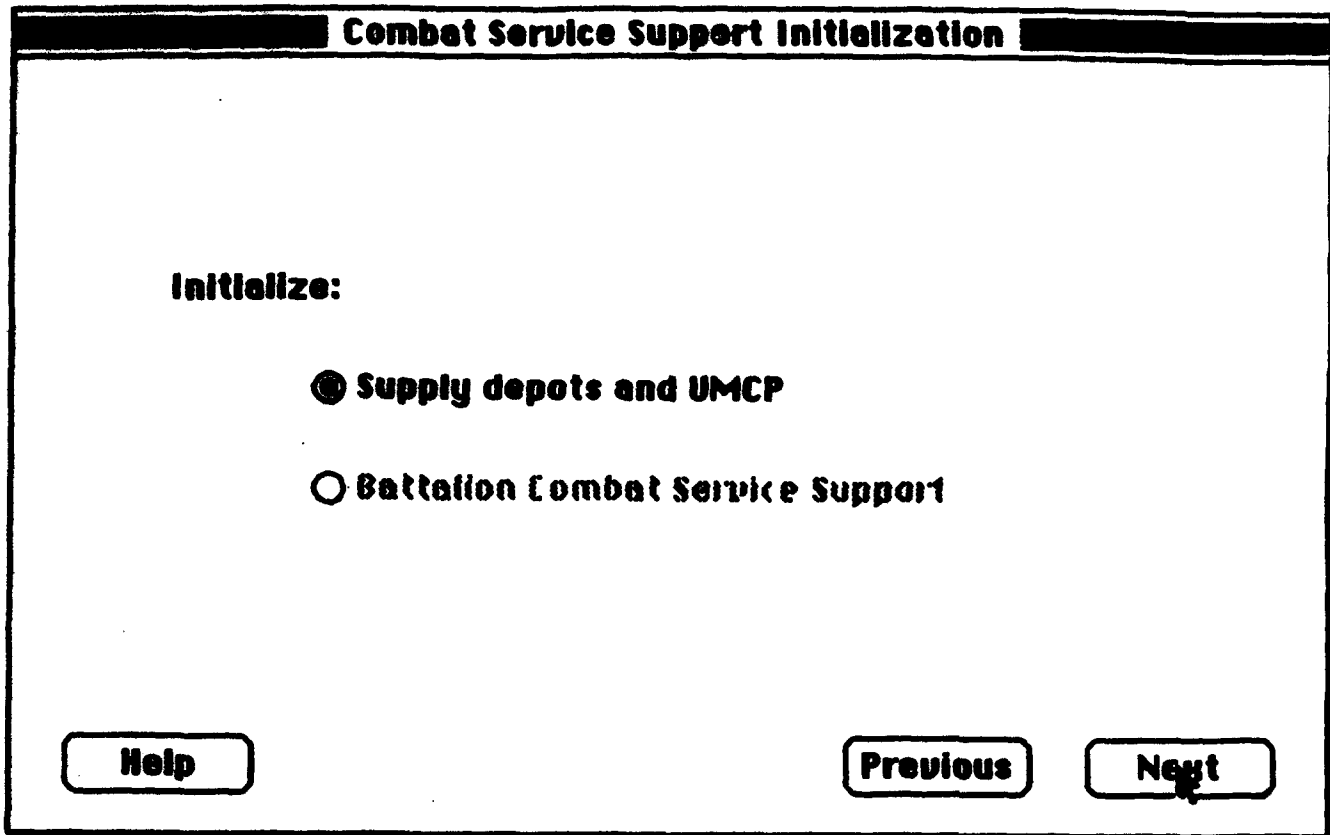


Figure 5.8. Combat Service Support Selection

On Figure 5.8, select the **Combat Service Support** icon and click on the **Go** button to start the **Combat Service Support Initialization** process.



**Figure 5.8-1. Supply Depots and UMCP**

**Figure 5.8-1 will automatically appear with the dot filled in for Supply depots and UMCP. Battalion Combat Service Support cannot be selected now but will be available later.**

**Click on the Next button to bring up the Division and Brigade Support Areas screen as shown in Figure 5.8-2.**

**Click on the Previous button to return to Figure 5.8.**



<b>Combat Service Support Initialization</b>		
<b>Division and Brigade Support Areas</b>		
<b>Class III Supply Locations</b>		
<b>Class III Supply Point</b>	<input type="text" value="NB530033"/>	(in DSA)
<b>Class III Distribution Point</b>	<input type="text" value="NB606088"/>	(in BSA)
<b>Class V Supply Locations</b>		
<b>Ammo Supply Point</b>	<input type="text" value="NB530033"/>	(in DSA)
<b>Ammo Transfer Point</b>	<input type="text" value="NB606088"/>	(in BSA)
<b>Unit Maintenance Collection Point</b>	<input type="text" value="NB635085"/>	
<input type="button" value="Help"/>	<input type="button" value="Previous"/>	<input type="button" value="Next"/>

Figure 5.8-2. Division and Brigade Support Areas

Enter the six-digit grid coordinates for all class III and V supply locations for the start of the exercise. After you have entered one set of coordinates, fill in the next line. Be sure to include the grid zone designator with all the coordinates.

Click on the Next button to bring up the Supply Depots Initialization confirmation screen, as shown in Figure 5.8-3.

Click on the Previous button to return to Figure 5.8-1.

**Combat Service Support Initialization**

**You have entered all parameters required for initializing the supply depots.**

**Click OK to initialize the supply depots.**

**OK**

**Click Previous to go back and change any parameters.**

**Previous**

**Click Cancel if you do not wish to initialize the supply depots at this time.**

**Cancel**

**NOTE: Once you have clicked OK these parameters cannot be changed.**

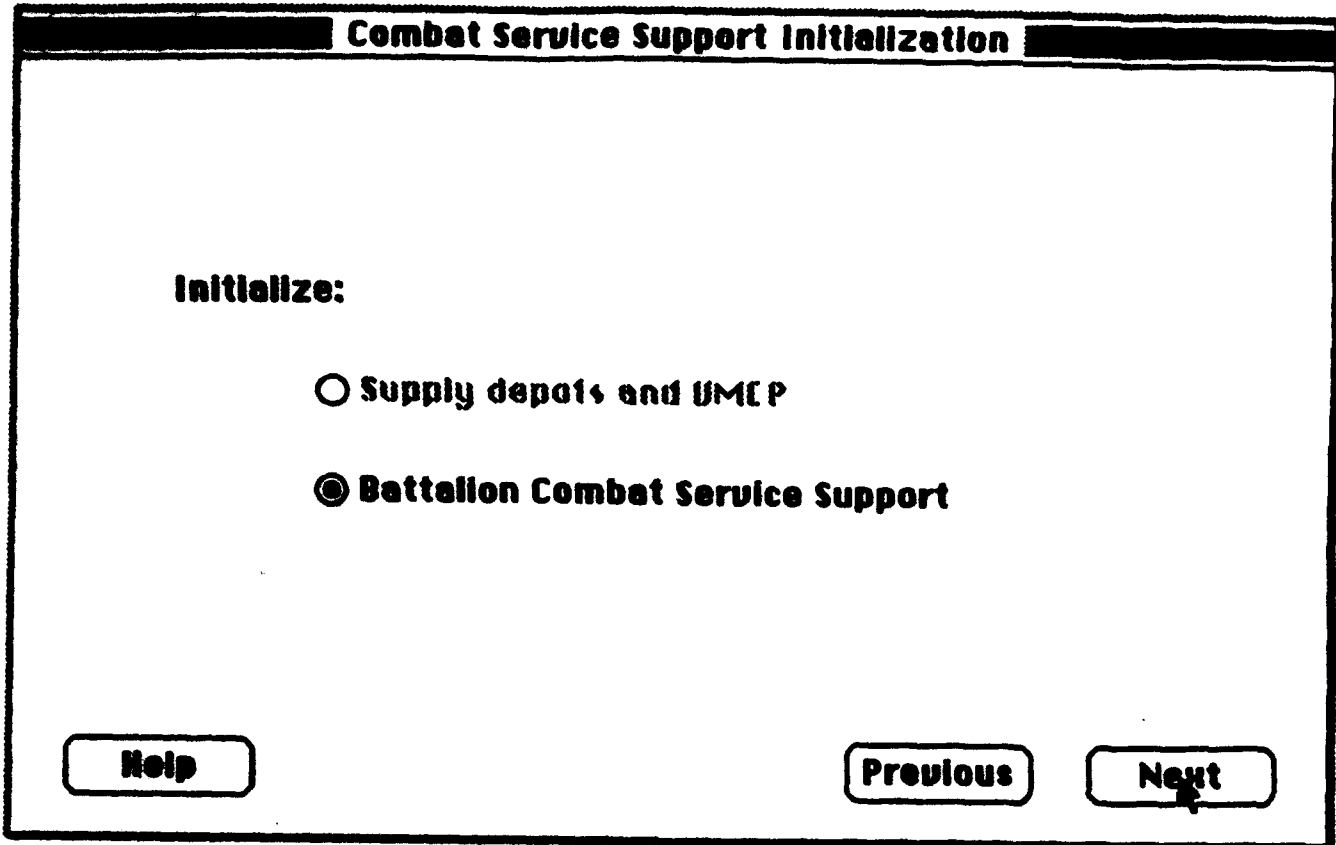
**Figure 5.8-3. Supply Depots Initialization Confirmation**

**Click on the Previous button to go back and change any Combat Service Support initialization data.**

**Click on the Cancel button to delay the start of the Combat Service Support initialization.**

**Click on the OK button to initialize the Supply depots and UMCP and to bring back Figure 5.8-3. After clicking OK, only the BattleMaster Function of "Reconstitution" will be allowed to change parameters.**

**To complete the "Combat Service Support" initialization, select the Combat Service Support menu for a second time and click the Go button.**

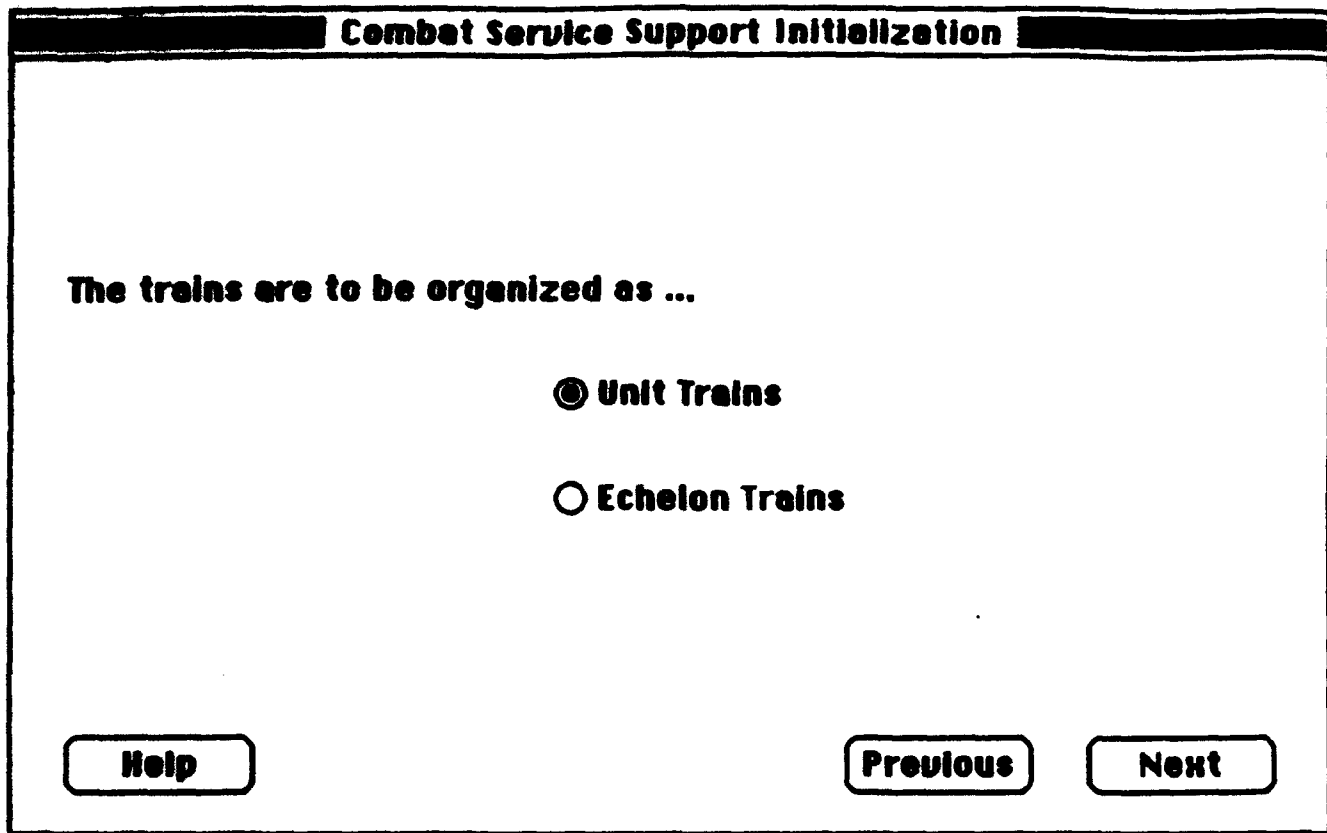


**Figure 5.8-4. Battalion Combat Service Support Initialization**

**Figure 5.8-4 will automatically appear with the dot now filled in for Battalion Combat Service Support. Supply depots and UMCP cannot be selected now, since they were initialized earlier.**

**Click on the Next button to bring up the Combat Service Support vehicle organization screen as shown in Figure 5.8-5.**

**Click on the Previous button to return to Figure 5.8.**



**Figure 5.8-5. Combat Service Support Vehicle Organization**

There are two ways to organize and place the Combat Service Support MCC vehicles for the start of the exercise: (1) the Unit Train organization and (2) the Echelon Train organization.

**For the Unit Trains:**

From Figure 5.8-5, select the Unit Trains circle. This puts the "Support Platoon" under Battalion control and places them in one general location for the beginning of the exercise.

Click on the Next button to initialize the Support Platoon as "Unit Trains" and to bring up the Support Platoon Location screen as shown in Figure 5.8-6.

Click on the Previous button to return to Figure 5.8-4.

**Combat Service Support Initialization**

**Support Platoon Location**

**(Enter the map coordinates of the platoon's center of mass)**

**Help** **Previous** **Next**

**Figure 5.8-6. Support Platoon Location**

In the Support Platoon Location box, enter the six-digit grid coordinates for where the Support Platoon is to be placed at the start of the exercise. Include the grid zone designator.

Click on the Next button to bring up the M977 Ammunition Carriers screen as shown in Figure 5.8-8.

Click on the Previous button to return to Figure 5.8-5.

**For the Echelon Trains:**

From Figure 5.8-5, select the Echelon Trains circle.

Click the Next button to initialize the Combat Service Support MCC vehicles as "Echelon Trains" and to bring up the Echelon Trains Location screen as shown in Figure 5.8-7.

Click on the Previous button to return to Figure 5.8-5.

Combat Service Support Initialization	
<b>Battalion Trains Locations</b>	
Class III - Fuel Supply	NB634084
Class V - Ammo Supply	NB636086
<b>Company Trains Locations</b>	
A Company	NB635055
B Company	NB634052
C Company	NB636055
D Company	NB636057
(Enter the map coordinates of each item's center of mass)	
<b>Help</b>	<b>Previous</b> <b>Next</b>

Figure 5.8-7. Echelon Trains Location

Figure 5.8-7 allows the assets of the "Support Battalion" to be split out, with a portion given to Battalion, and a portion to each of the companies engaged in the exercise.

In each of the boxes, enter the six-digit grid coordinates for all class III and V and Companies train locations for the start of the exercise. After you have entered one set of coordinates, fill in the next line. Be sure to include the grid zone designator with all the coordinates.

Click on the Next button to bring up the M977 Ammunition Carriers screen, as shown in Figure 5.8-8.

Click on the Previous button to return to Figure 5.8-5.

**Combat Service Support Initialization**

**M977 Ammunition Carriers**

Vehicle	Assignment	Location	Load	
1	BN (S)	NB300202	21368 lbs.	702 cu. ft.
2	BN (S)	NB301202	21368 lbs.	702 cu. ft.
3	BN (S)	NB301202	21368 lbs.	702 cu. ft.
4	BN (S)	NB302201	21368 lbs.	702 cu. ft.
5	BN (S)	NB302201	21368 lbs.	702 cu. ft.
6	BN (S)	NB302200	21368 lbs.	702 cu. ft.
7	BN (S)	NB302200	6251 lbs.	696 cu. ft.
8	BN (S)	NB302199	6251 lbs.	696 cu. ft.
9	BN (S)	NB302199	17059 lbs.	624 cu. ft.
10	BN (S)	NB301198	6690 lbs.	695 cu. ft.

Display Load By    Weight and Volume    Ammo Type  

Figure 5.8-8. M977 Ammunition Carriers  
(Weight and Volume Display)

Figure 5.8-8 shows the M977 Ammunition Carriers' initial locations. This information is based on the coordinates set in the previous screen. The screen automatically shows their load by weight and volume.

To view the load by Ammo Type, click the Ammo Type circle. The screen will appear as shown below in Figure 5.8-9.

Click on the Next button to bring up the Pallet Ammunition Carriers screen, as shown in Figure 5.8-12.

Click on the Previous button to return to Figure 5.8-7.

**NOTE**

The process for varying the load or location of each truck will be addressed later in this section.

**Combat Service Support Initialization**

**M977 Ammunition Carriers**

Vehicle	Assignment	Location	Load
2	BN (S)	NB301202	105mm
3	BN (S)	NB301202	105mm
4	BN (S)	NB302201	105mm
5	BN (S)	NB302201	105mm
6	BN (S)	NB302200	105mm
7	BN (S)	NB302200	25mm, missiles
8	BN (S)	NB302199	25mm, missiles
9	BN (S)	NB302199	25mm, 105mm
10	BN (S)	NB301198	25mm, missiles

Display Load By    Weight and Volume    Ammo Type

Figure 5.8-9. M977 Ammunition Carriers  
(Ammo Type Display)

Figure 5.8-9 shows the Ammunition Carriers' initial locations. This information is based on the coordinates set in the previous screen.

**Step 1:** To view the load by Weight and Volume, click the **Weight and Volume** circle. The screen will appear as shown above in Figure 5.8-8.

**Step 2:** To set parameters individually for each vehicle, click the cursor on the line of the vehicle to be set. This will cause a new window to appear on top of the one currently shown. An example is shown in Figure 5.8-10.

Click on the **Next** button to bring up the Pallet Ammunition Carriers screen as shown in Figure 5.8-12.

Click on the **Previous** button to return to Figure 5.8-7.



**Vehicle 1**

**Assigned To**       A Co    B Co    C Co    D Co    Bn

**Alignment**       Defense    Offense    Shared

**Initial Location**   

**Initial Load**

Ammo Type	Quantity	lbs.	cu. ft.	
105 mm HEAT	160	10958	360	
105 mm APDS	122	8355	274	
20 mm HEI	15	1089	19	
20 mm PIE	15	1089	19	↓

**Totals: 21492 lbs., 673 cu. ft.**

Figure 5.8-10. Ammunition Carriers Detail

- Step 1:** Click an Assigned To circle to select the desired company or Battalion. If no unit is selected at this point, no unit assignment can be made by the BattleMaster.
- Step 2:** Click an Alignment circle to select the desired alignment (Offense/Defense, U.S./Threat, or Shared).

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "US or Threat". See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

- Step 3:** In the Initial Location box, enter in the new six or eight-digit grid coordinates.

**Step 4:** Determine the "Initial Load" that you want in this vehicle. To vary the load or mix level, click anywhere on the selected Initial Load line. The Ammo Transfer Function screen, as shown in Figure 5.8-11, will appear.

Click on the OK button to save the data and to return to the previous screen.

Click on the Restore Defaults button to restore the ammunition load and mix for that vehicle back to its initial state.

Click on the Cancel button to return to the previous screen.

Depot				Vehicle 1			
Ammo Type	Quantity	lbs.	cu. ft.	Ammo Type	Quantity	lbs.	cu. ft.
APF Scot mine	--	--	--				
20 mm HEI	--	--	--	105 mm APDS	122	8355	274
				20 mm HEI	15	1089	19
Hydra70 101b	--	--	--	20 mm PIE	15	1089	19

**Weight: 21492 lbs.**  
**Volume: 673 cu. ft.**

Transfer Quantity

Figure 5.8-11. Ammo Transfer Function

- Step 1:** Click anywhere on the selected Ammo Type line to be transferred. That line will turn black.
- Step 2:** Click on the left arrow to add ammunition to the truck from the depot, or click on the right arrow to remove ammunition from the truck and put it into the depot. Note: The truck cannot be overloaded.
- Step 3:** Enter the quantity to be transferred: number of rounds for 105mm, and number of boxes for 25mm.

Click on the **Transfer** button. Repeat steps three and four for each type of ammunition.

Click on the **Done** button to return to the Ammunition Carriers detail in Figure 5.8-9.

Combat Service Support Initialization				
Pallet Ammunition Carriers				
Vehicle	Assignment	Location	Load	
1	BN (S)	NB300202	600 lbs.	637 cu. ft.
2	BN (S)	NB301202	600 lbs.	637 cu. ft.
3	BN (S)	NB301202	600 lbs.	637 cu. ft.
4	BN (S)	NB302201	600 lbs.	637 cu. ft.
5	BN (S)	NB302201	600 lbs.	637 cu. ft.
6	BN (S)	NB302200	3630 lbs.	679 cu. ft.
7	BN (S)	NB302200	3630 lbs.	679 cu. ft.
8	BN (S)	NB302199	3630 lbs.	679 cu. ft.
9	BN (S)	NB302199	3630 lbs.	679 cu. ft.
10	BN (S)	NB301198	3630 lbs.	679 cu. ft.

Display Load By  Weight and Volume  Ammo Type

Figure 5.8-12. Pallet Ammunition Carriers  
(Weight and Volume on Carriers)

Figure 5.8-12 shows the Pallet Ammunition Carriers' initial locations. This information is based on the coordinates set in the previous screen. The screen automatically shows their load by weight and volume.

To view the load by ammo type, click on the Ammo Type circle. The screen will appear as shown below in Figure 5.8-13.

Click on the **Next** button to bring up the M978 Fuel Carriers screen as shown in Figure 5.8-14.

Click on the **Previous** button to return to Figure 5.8-9.

## NOTE

The process for varying the load or location of each pallet will be addressed later in this section.

Combat Service Support Initialization			
Pallet Ammunition Carriers			
Vehicle	Assignment	Location	Load
1	BN (S)	NB300202	mines
2	BN (S)	NB301202	mines
3	BN (S)	NB301202	mines
4	BN (S)	NB302201	mines
5	BN (S)	NB302201	mines
6	BN (S)	NB302200	mines
7	BN (S)	NB302200	mines
8	BN (S)	NB302199	mines
9	BN (S)	NB302199	mines
10	BN (S)	NB301198	mines

Display Load By    Weight and Volume    Ammo Type

Figure 5.8-13. Pallet Ammunition Carriers  
(Ammo Type on Carriers)

Figure 5.8-13 shows the Ammunition Carriers' initial locations. This information is based on the coordinates set in the previous screen.

To view the load by Weight and Volume, click on the Weight and Volume circle. The screen will appear as shown below in Figure 5.8-11.

Click on the Next button to bring up the M978 Fuel Carriers screen as shown in Figure 5.8-14.

Click on the Previous button to return to Figure 5.8-9.

**NOTE**

The same procedure is used to set parameters for M977 Ammunition Carriers and Pallet Ammunition Carriers.

<b>Combat Service Support Initialization</b>			
<b>M978 Fuel Carriers</b>			
<b>Vehicle</b>	<b>Assignment</b>	<b>Location</b>	<b>Load (Gallons)</b>
1	BN (S)	NB300202	2500
2	BN (S)	NB301202	2500
3	BN (S)	NB301202	2500
4	BN (S)	NB302201	2500
5	BN (S)	NB302201	2500
6	BN (S)	NB302200	2500
7	BN (S)	NB302200	2500
8	BN (S)	NB302199	2500
9	BN (S)	NB302199	2500
10	BN (S)	NB301198	2500
11	BN (S)	NB301198	2500
12	BN (S)	NB300198	2500

Figure 5.8-14. M978 Fuel Carriers

Figure 5.8-14 shows the M978 Fuel Carriers' initial locations. This information is based on the coordinates set earlier. The screen automatically shows their load in gallons.

To set parameters individually for each vehicle, click anywhere on the selected vehicle line. This will cause a new window to appear on top of the one currently shown. An example is shown in Figure 5.8-15.

Click on the Next button to bring up the Maintenance Team screen as shown in Figure 5.8-16.

Click on the Previous button to return to Figure 5.8-12.

**M978 Fuel Carriers**

**Vehicle 1**

**Assigned To**       A Co    B Co    C Co    D Co    Bn

**Alignment**       Defense    Offense    Shared

**Initial Location**  

**Initial Load**       (Gallons)

Figure 5.8-15. Fuel Carriers Details

- Step 1:** Click an **Assigned To** circle to select the desired company or Battalion. If no assignment is selected at this point, it cannot be made by the BattleMaster later.
- Step 2:** Click an **Alignment** circle to select the desired alignment (Offense/Defense, U.S./Threat, or Shared).

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "US or Threat". See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

- Step 3:** Click on the **Initial Location** box to change this information. Type in the new six or eight-digit grid coordinates.
- Step 4:** In the **Initial Load** box, enter the desired number of gallons, not to exceed 2500.

Click on the **Restore Defaults** button to restore the original displayed data except for the **Initial Load**.

Click on the **OK** button to store the data and to return to Figure 5.8-14.

Click on the **Cancel** button to return to Figure 5.8-14.

**Combat Service Support Initialization**

**Maintenance Teams**

Vehicle	Assignment	Location
1	BN (S)	NB635087
2	BN (S)	NB636087
3	BN (S)	NB636087
4	BN (S)	NB637086
5	BN (S)	NB637086
6	BN (S)	NB637085
7	BN (S)	NB637085
8	BN (S)	NB637084
9	BN (S)	NB637084
10	BN (S)	NB636083

**Figure 5.8-16. Maintenance Teams**

Figure 5.8-16 shows the Maintenance Team's initial locations. This information is based on the coordinates set earlier..

To set parameters individually for each vehicle, click anywhere on the selected vehicle line. This will cause a new window to appear on top of the one currently shown. An example is shown in Figure 5.8-17.

Click on the **Next** button to bring up the Combat Service Support initialization confirmation screen as shown in Figure 5.8-18.

Click on the **Previous** button to return to Figure 5.8-14.

**Maintenance Teams**

**Vehicle 1**

**Assigned To**       A Co    B Co    C Co    D Co    Bn

**Alignment**       Defense    Offense    Shared


**Initial Location**         

Figure 5.8-17. Maintenance Teams Details

- Step 1:** Click an **Assigned To** circle to select the desired company or Battalion. If no assignment is selected at this point, it cannot be made by the BattleMaster later.
- Step 2:** Click an **Alignment** circle to select the desired alignment (Offense/Defense, U.S./Threat, or Shared).

**NOTE**

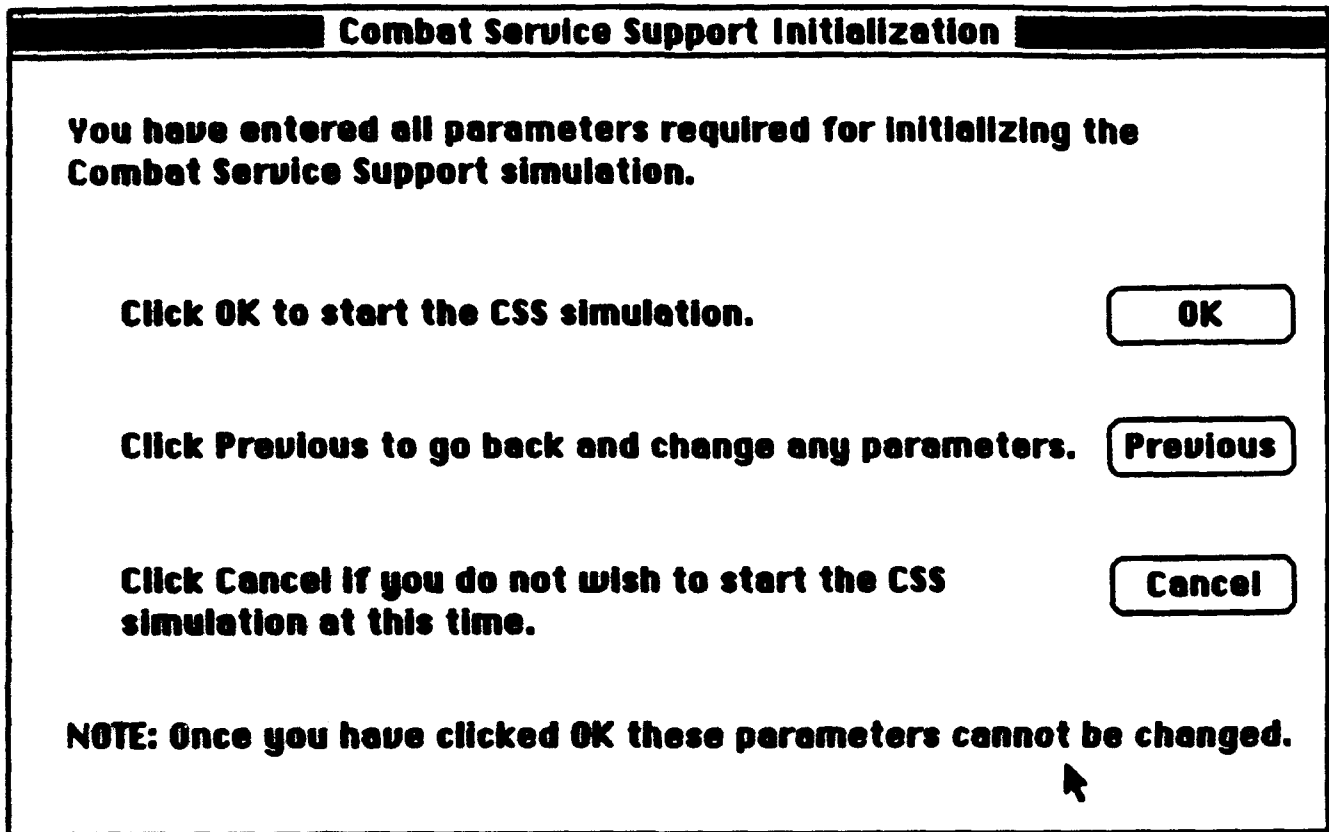
Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

- Step 3:** In the **Initial Location** box, enter the new six or eight-digit grid coordinates.
- Click on the **Restore Defaults** button to bring back the default values.



Click on the **Cancel** button to return to Figure 5.8-16.

Click on the **OK** button to save the data and to return to Figure 5.8-16.



**Figure 5.8-18. Combat Service Support Initialization Confirmation**

Click on the **Previous** button to go back and change any Combat Service Support initialization data.

Click on the **Cancel** button to delay the start of the Combat Service Support initialization and to return to the Initialization Menu (Figure 5.8).

Click on the **OK** button to initialize CSS simulation, to activate the Admin/Log console, to activate the Maintenance console, and to return to the Initialization Menu (Figure 5.8).

## 5.9 Fire Support Initialization.

This section describes how to activate both the allocated Howitzer Batteries and the Mortar Platoon. It also describes how to set the ammunition supply and controlled supply rate at the batteries or platoon.

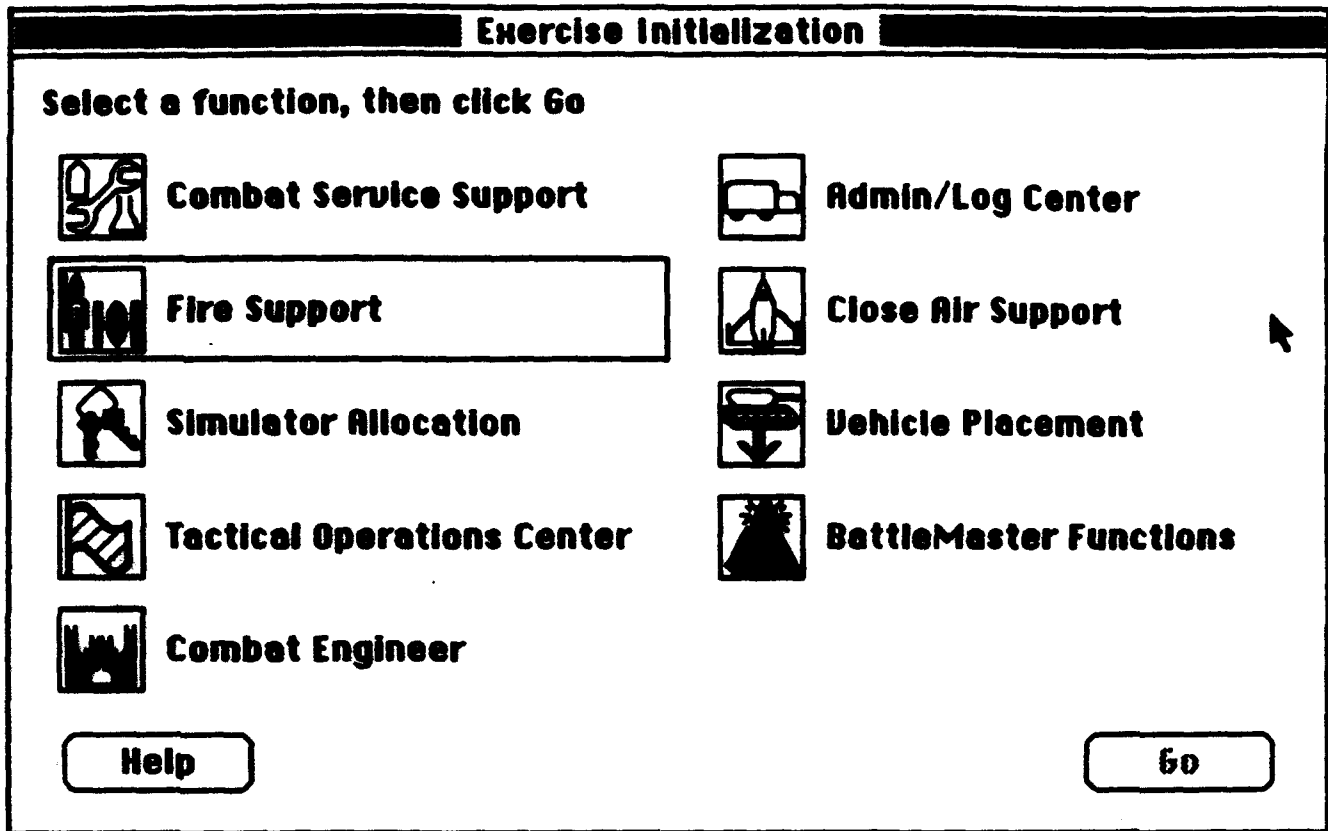


Figure 5.9. Fire Support Selection

From Figure 5.9, select the Fire Support icon and click the Go button to start the Fire Support Initialization process.

Fire Support Element Initialization			
<b>Enter parameters for the battery of eight 155mm howitzers</b>			
<b>Battery Location (Center of Mass)</b>	<input type="text" value="NB65600315"/>		
<b>Azimuth of Fire (In Mills from Grid North)</b>	<input type="text" value="0"/>		
<b>Initial ammunition supply at gun site (rounds per gun):</b>			
<b>HE Quick</b>	<input type="text" value="150"/>	<b>ADAM</b>	<input type="text" value="200"/>
<b>HE Var</b>	<input type="text" value="200"/>	<b>RAAMS</b>	<input type="text" value="200"/>
<b>Controlled Supply Rate (rounds per gun per day):</b>			
<b>HE Quick</b>	<input type="text" value="75"/>	<b>ADAM</b>	<input type="text" value="32"/>
<b>HE Var</b>	<input type="text" value="75"/>	<b>RAAMS</b>	<input type="text" value="24"/>
<input type="button" value="Help"/>		<input type="button" value="Previous"/>	<input type="button" value="Next"/>

Figure 5.9-1. Howitzer Battery Initialization

- Step 1:** In the Battery Location box, enter the six-digit grid coordinates of the location where the battery is to be placed. Include the grid zone coordinates.
- Step 2:** In the Azimuth of Fire box, enter the Azimuth of Fire in mils (range 0-6400).
- Step 3:** In the HE Quick box, enter number of initial rounds of HE Quick ammunition.
- Step 4:** In the ADAM box, enter number of initial rounds of ADAM ammunition.
- Step 5:** In the HE Var box, enter number of initial rounds of HE Var ammunition.
- Step 6:** In the RAAMS box, enter number of initial rounds of RAAMS ammunition.
- Step 7:** In the CSR HE Quick box, enter number of rounds per gun per day for controlled supply rate of HE Quick ammunition.
- Step 8:** In the CSR ADAM box, enter number of rounds per gun per day for controlled supply rate of ADAM ammunition.

- Step 9: In the CSR HE Var box, enter number of rounds per gun per day for controlled supply rate of HE Var ammunition.
- Step 10: In the CSR RAAMS box, enter number of rounds per gun per day for controlled supply rate of RAAMS ammunition.
- Step 11: Repeat the above steps for additional Howitzer Batteries.

**NOTE**

If the number of Batteries selected in Fig 5.4-2, Exercise Initialization, is other than one (1), then these Batteries must be subsequently initialized in order at this time.

Click on the Next button to continue entering parameters for the platoon of six 107mm mortars, as shown in Figure 5.9-2.

Click on the Previous button to return to Figure 5.9.

**Fire Support Element Initialization**

**Enter parameters for the platoon of six 107mm mortars**

<b>Platoon Location (Center of Mass)</b>	NB67500820	
<b>Azimuth of Fire (in Mills from Grid North)</b>	1800	
<b>Initial Ammunition Supply at Gun Site</b>		
HE Quick	30	Rds / Gun
HE Var	25	Rds / Gun
<b>Controlled Supply Rate</b>		
HE Quick	20	Rds / Gun / Day
HE Var	20	Rds / Gun / Day

Help

Previous

Next

Figure 5.9-2. Mortar Platoon Initialization

- Step 1:** In the Platoon Location box, enter the six-digit grid location coordinates where the platoon is to be placed. Include the grid zone coordinator.
  - Step 2:** In the Azimuth of Fire box, enter the Azimuth of Fire in mils.
  - Step 3:** In the HE Quick box, enter number of rounds of initial ammunition at the HE Quick.
  - Step 4:** In the HE Var box, enter number of rounds of initial ammunition at the HE Var.
  - Step 5:** In the CSR HE Quick box, enter number of rounds per gun per day for controlled supply rate at HE Quick.
  - Step 6:** In the CSR HE Var box, enter number of rounds per gun per day for controlled supply rate at HE Var.
- Click on the Next button to bring up the Fire Support Element Initialization confirmation screen, as shown in Figure 5.9-3.**
- Click on the Previous button to return to Figure 5.9-1.**

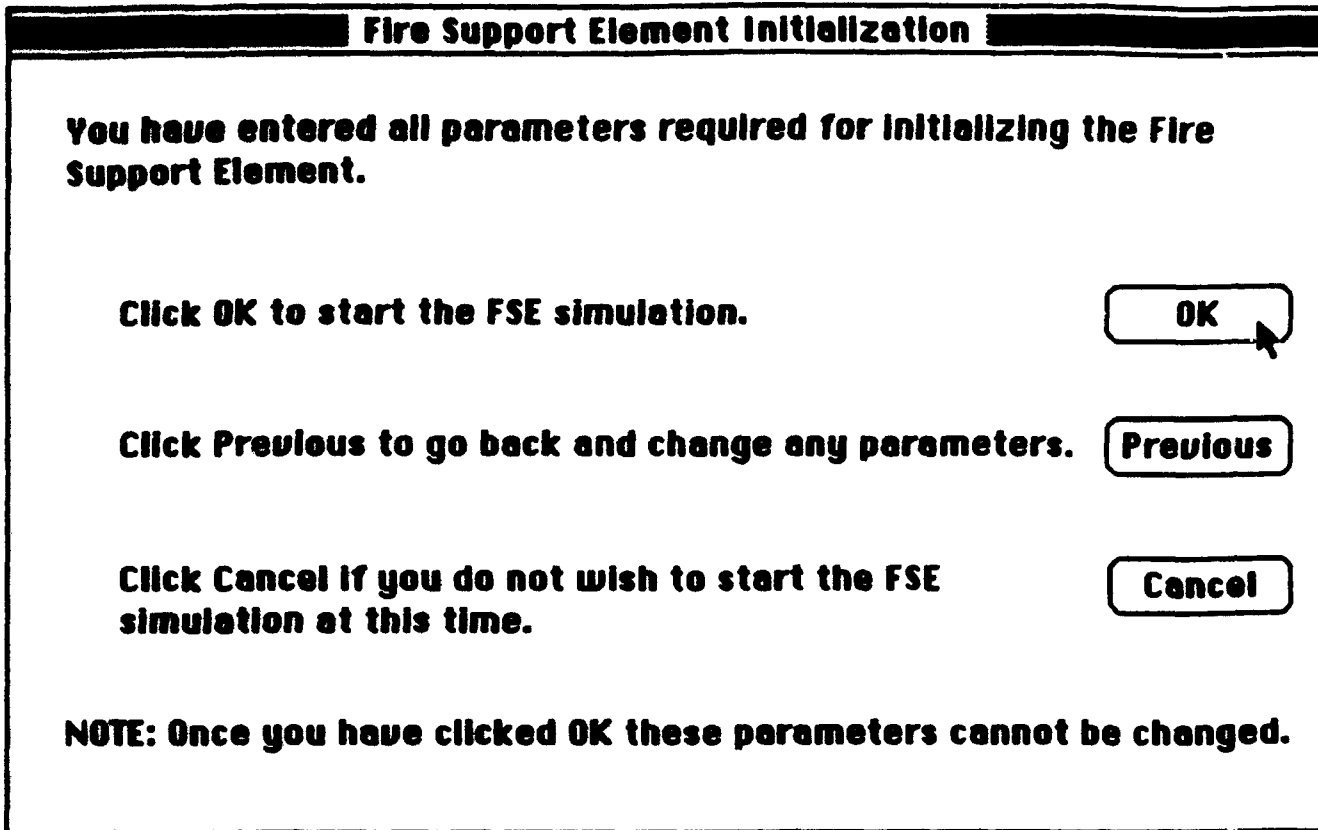


Figure 5.9-3. Fire Support Element Initialization Confirmation

Click on the **Previous** button to go back to change any Fire Support Elements (FSE) initialization data.

Click on the **Cancel** button to delay the start of the FSE initialization and to return to the Initialization Menu (Figure 5.9).

Click on the **OK** button to start the FSE simulation and to return to the Initialization Menu (Figure 5.9).

## 5.10 Simulator Allocation Initialization.

This section describes the operations necessary to perform the Simulator Allocation Initialization process.

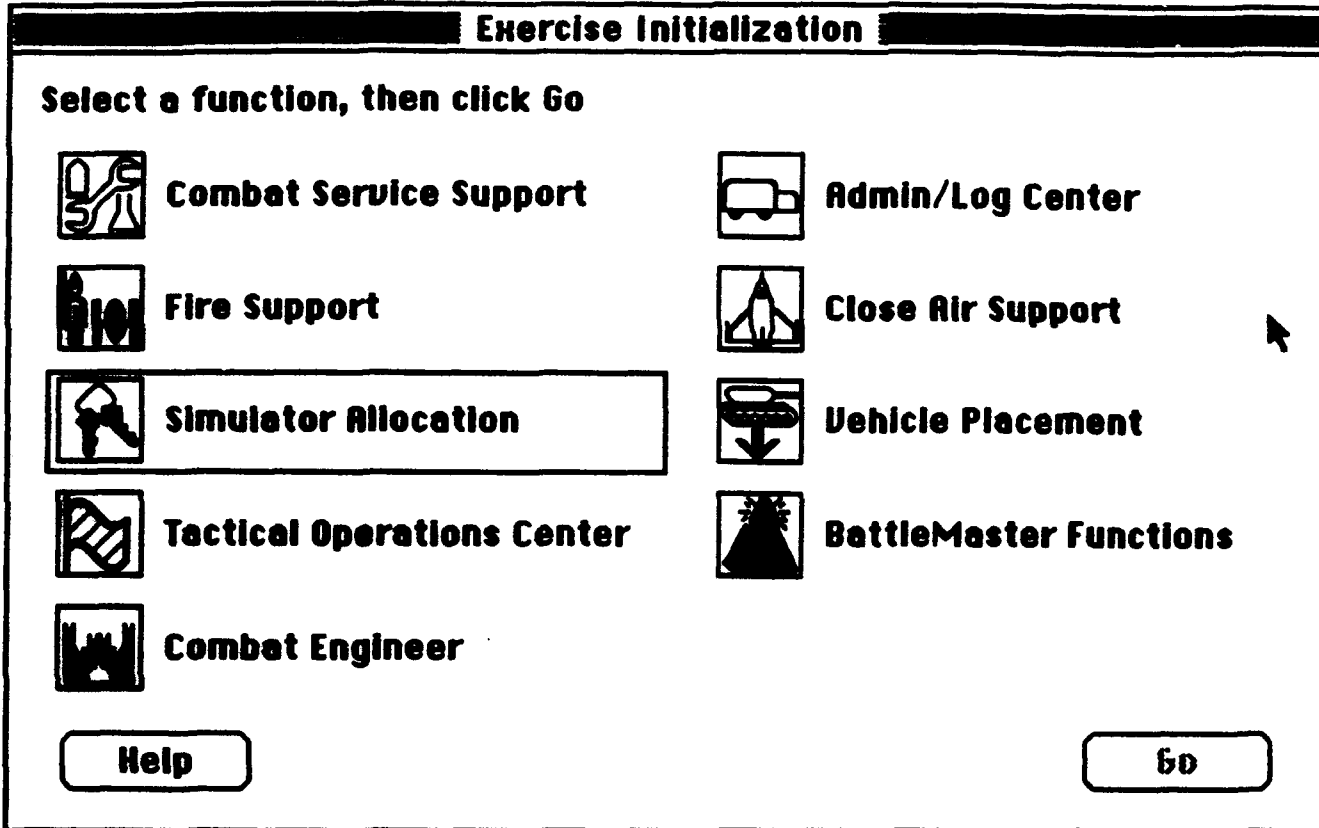


Figure 5.10. Simulator Allocation Initialization

From Figure 5.10, select the **Simulator Allocation** icon and click the **Go** button to start the Simulator Allocation Initialization process. The user can begin to allocate the simulator to an echelon. Figure 5.10-1 shows the Simulator Allocation Worksheet as it appears when first brought up. The screen is scrollable and lists all the simulators installed.

**SIMNET Control Console**

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**Vehicle Simulator Allocation**

Simulator	Type	Unit	Placed
7A	M1	Unassigned	
7B	M2/3	Unassigned	
9A	FRED	Unassigned	
9B	FRED	Unassigned	
9C	M2/3	Unassigned	
9D	M2/3	Unassigned	
10A	M1	Unassigned	
10B	M1	Unassigned	
10D	M2/3	Unassigned	

**Help** **Overview**

**Figure 5.10-1. Simulator Allocation Worksheet**

The user can select a simulator for allocation by clicking anywhere on the line relating to the desired simulator. This will cause a new window to appear on top of the one currently shown. An example is shown in Figure 5.10-2.

Click on the **Overview** button to return to the Initialization Menu (Figure 5.10).



SIMNET Control Console

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**Vehicle Simulator Allocation**

**Simulator: 10C                      Type: FRED**

**Specify which unit may use this simulator:**

**Battalion Headquarters Tank Section**

**A Company**                       **B Company**

**C Company**                       **D Company**

**Scout Platoon**                       **Air Liaison Officer**

**Unassigned (spare)**

Figure 5.10-2. Simulator Allocation

**Step 1:**        Click a circle to Specify which unit may use this simulator.

Click on the **OK** button to return to the Simulator Allocation Worksheet (Figure 5.10-1).

### 5.11 Tactical Operation Center Initialization.

This section describes the operations necessary to perform the Tactical Operation Center Initialization process.

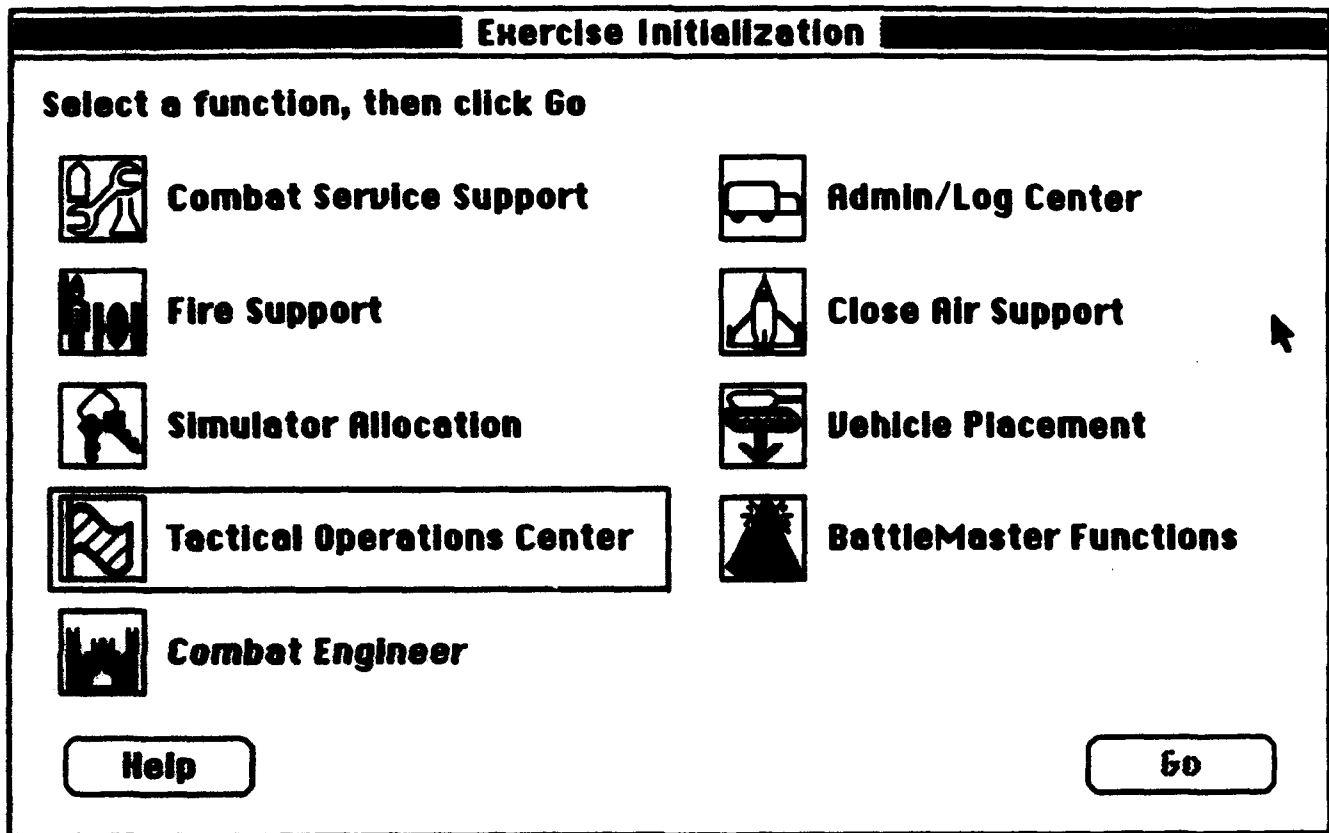


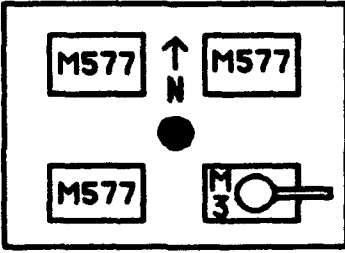
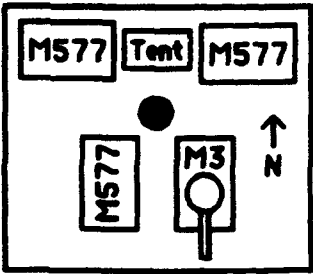
Figure 5.11. Tactical Operation Center Initialization

From Figure 5.11, selecting the Tactical Operation Center (TOC) icon causes a box to form around it and enables the Go button. Clicking the Go button then brings up the Alignment of Tactical Operation Center screen, as shown in Figure 5.11-1.

**Tactical Operations Center Initialization**

**Role of the TOC**       Defense                       Offense  
 **Shared for a local force-on-force exercise**

**TOC Location**     

**TOC Arrangement**              

**NOTE: Clicking OK will position the TOC and render it visible.**

Figure 5.11-1. Alignment of Tactical Operation Center

On the Alignment of Tactical Operation Center screen as shown in Figure 5.11-2:

- Step 1:** In the TOC Location box, enter the six-digit grid coordinates, including the zone designator where the TOC is to be located.
- Step 2:** The Role of the TOC and the TOC Configuration by which the TOC will function may be designated at this stage by placing the cursor over and clicking one of the circles designated as Defense, Offense, or Shared, and then selecting an applicable Configuration.

Click on the OK button to place the TOC and to return to the Initialization Menu in Figure 5.11. The Tactical Operation Center icon will be grayed out.

Click on the Cancel button to return to the Initialization Menu (Figure 5.11).

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat". See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

**5.12 Combat Engineer Initialization.**

This section describes how to activate the "Combat Engineer" console and describes how to select the Combat Engineer assets to be used in an exercise.

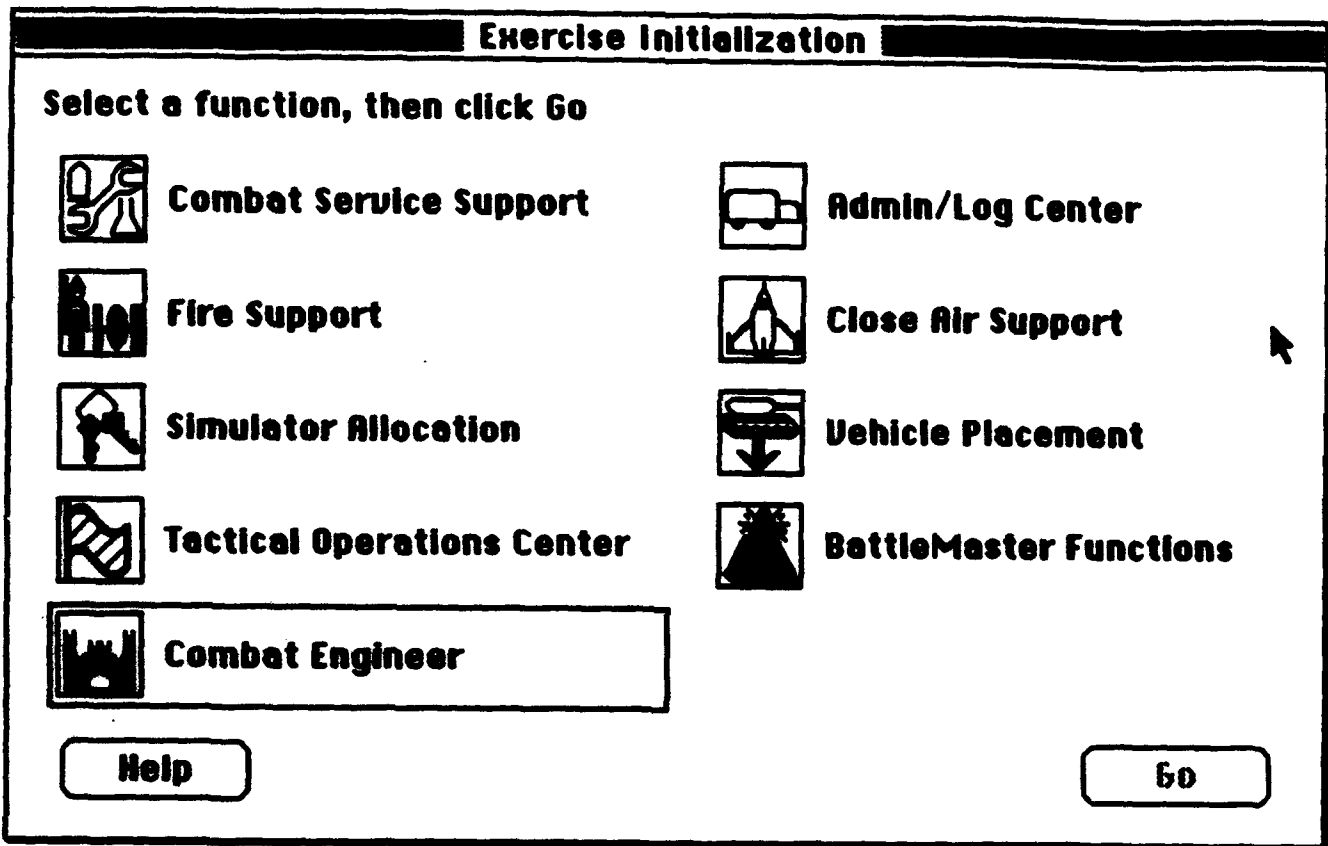


Figure 5.12. Combat Engineer Selection

From Figure 5.12, select Combat Engineer and click the Go button to start the Combat Engineer Initialization process.

Combat Engineer Initialization	
Specify the resources available to the Combat Engineering element.	
Number of engineering platoons available	<input type="text" value="3"/>
Number of M128 GEMSS available	<input type="text" value="3"/>
Number of M57 available	<input type="text" value="4"/>
Number of M58-A1 MICLIC available	<input type="text" value="4"/>
Default starting location	<input type="text" value="NB100100"/>
<input type="button" value="Help"/>	<input type="button" value="Previous"/> <input type="button" value="Next"/>

Figure 5.12-1. Combat Engineer Resources Selection

The default numbers of Combat Engineer assets are displayed in each of the boxes as shown in Figure 5.12-1. To change any of these numbers, proceed as follows:

- Step 1: In the Number of engineering platoons available box, enter the total number of Combat Engineer platoons available for the exercise in the top box (maximum number = 5).
- Step 2: In the Number of M128 GEMMS available box, enter the number of M128 GEMSS mine scattering trailers available for the exercise (maximum number = 5).
- Step 3: In the Number of M57 available box, enter the number of M57 mine dispensing trailers available for the exercise (maximum number = 5).
- Step 4: In the Number of M58-A1 MICLIC available box, enter the number of M58A1 Line Charge trailers available for the exercise (maximum number = 5).

Step 5: In the Default starting location box, enter the six or eight-digit coordinates of the starting location.

Click on the Previous button to return to Figure 5.12.

Click on the Next button to bring up the Locate Combat Engineer Asset screen, as shown in Figure 5.12-2.

**Combat Engineer Initialization**

**If you would like to change the starting location of a vehicle, click on the vehicle.**

Resource	Location	
CE A/1/1	NB100100	
CE A/1/2	NB100100	
CE A/1/3	NB100100	
CE A/1/4	NB100100	
CE A/2/1	NB100100	
CE A/2/2	NB100100	
CE A/2/3	NB100100	
CE A/2/4	NB100100	
CE A/3/1	NB100100	

Figure 5.12-2. Locate Combat Engineer Asset

To change the starting location of any asset, click anywhere on the line associated with the asset that need to be changed. The Combat Engineer Location input dialog box, as shown in Figure 5.12-3, will appear.

**Vehicle: CE A/1/3**

**Location:**

**Press the "Next" button to change the starting location of this vehicle.**

**Figure 5.12-3. Combat Engineer Asset Location Dialog Box**

**Click on the Previous button to return to Figure 5.12-1.**

**Click on the Next button to save the displayed data and to bring up the Combat Engineer Initialization confirmation, as shown in Figure 5.12-4.**

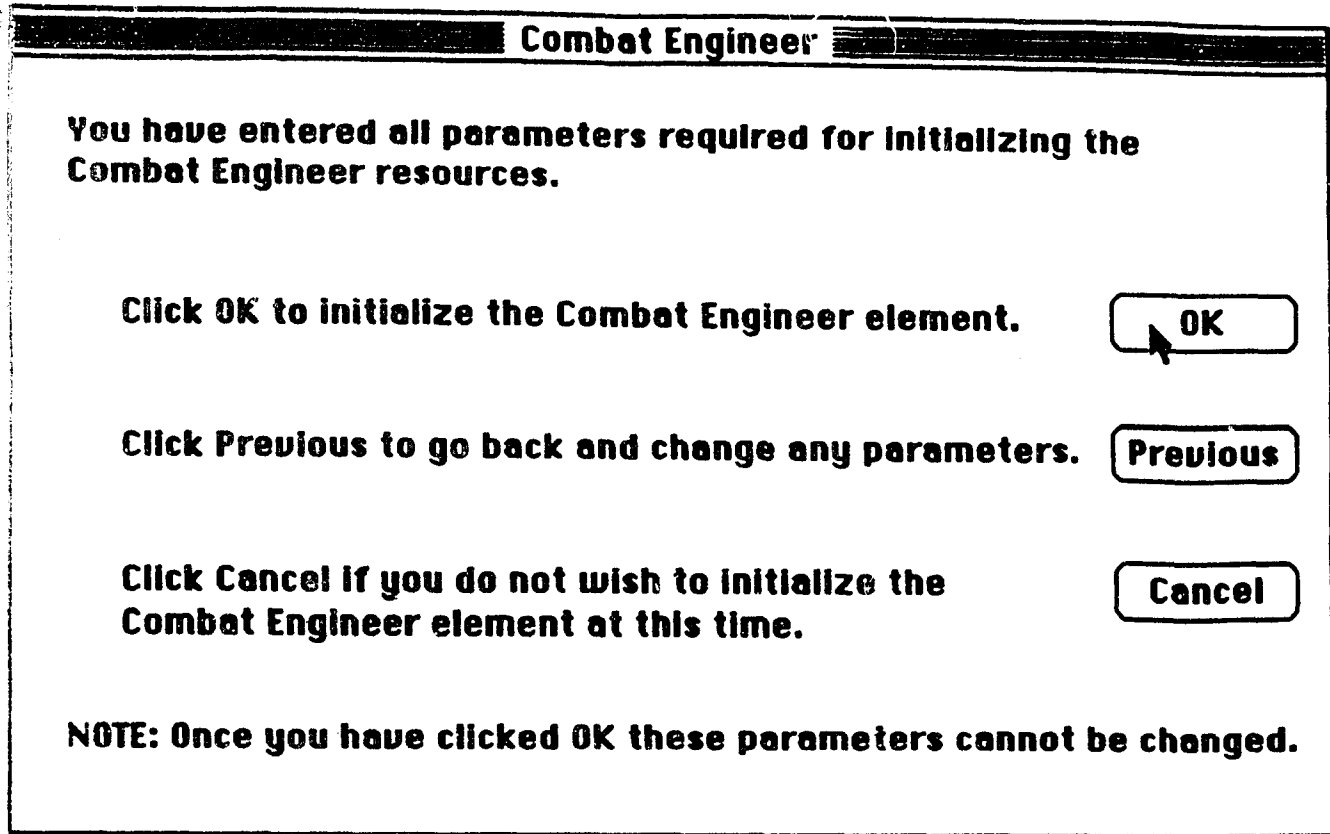


Figure 5.12-4. Combat Engineer Initialization Confirmation

In the Location box, enter the six or eight-digit grid coordinate for the starting location for the selected asset.

Click the **Cancel** button to return to Figure 5.12-2.

Click the **Next** button to change the starting location and to return to Figure 5.12-2 with the updated location.

Click on the **Cancel** button to delay the activation of the Combat Engineer Console and to return to the Initialization Menu (Figure 5.12).

Click on the **Previous** button to go back to change the resource selection options.

Click on the **OK** button to activate the Combat Engineer console and to return to the Initialization Menu (Figure 5.12).



### 5.13 Admin/Log Center Initialization.

This section describes the operations necessary to perform the Admin/Log Center Initialization process.

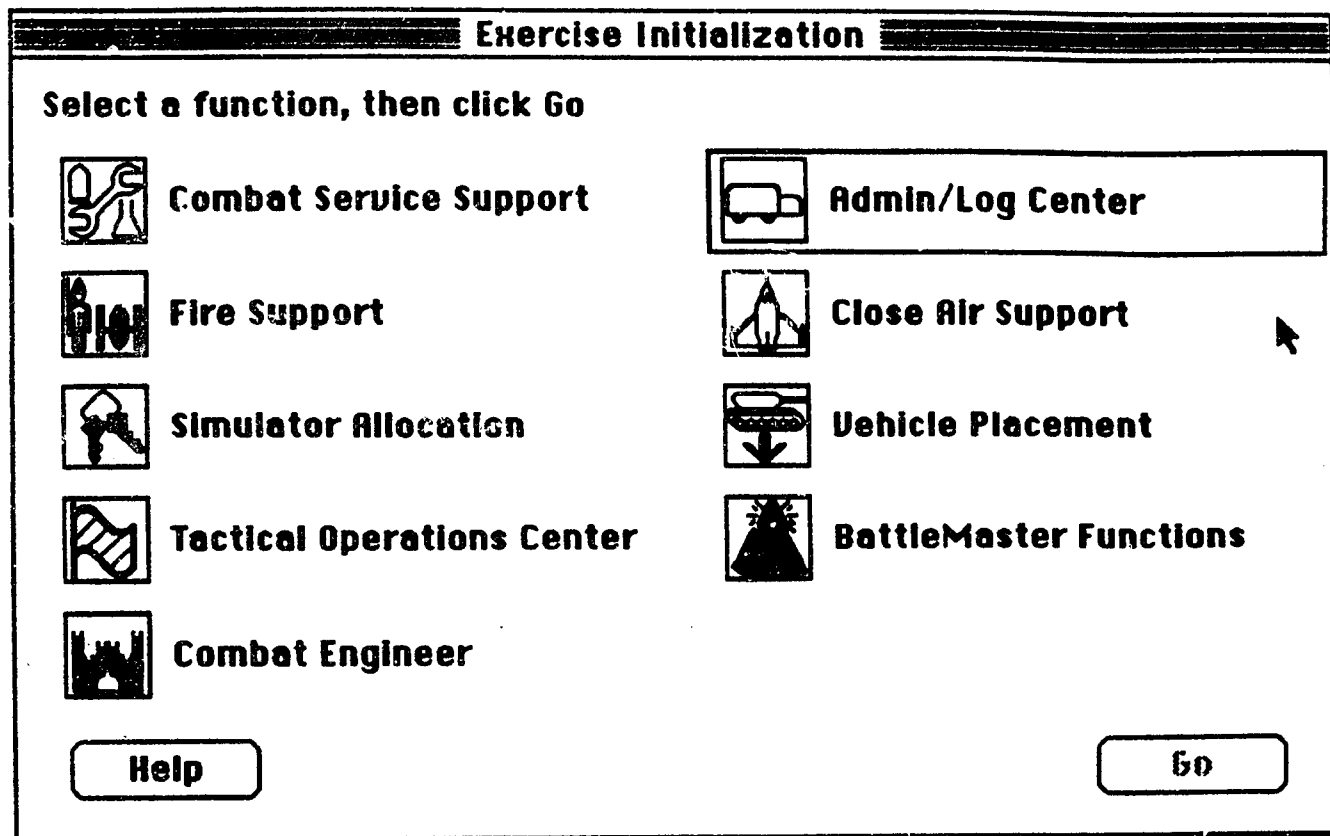


Figure 5.13. Admin/Log Center Selection

From Figure 5.13, selecting the Admin/Log Center icon causes a box to form around it and enables the Go button. Clicking the Go button then brings up the Alignment of Admin/Log Center screen, as shown in Figure 5.13-1.

**Admin/Log Center Initialization**

**Role of the ALOC**       Defense                       Offense  
                                  Shared for a local force-on-force exercise

**ALOC Location**     

**NOTE: Clicking OK will position the Admin/Log Center and render it visible.**

Figure 5.13-1. Admin/Log Center Initialization

On the Admin/Log Center Initialization screen (as shown in Figure 5.13-1):

- Step 1:**      In the ALOC Location box, enter the six-digit coordinates, including the grid zone designator where the ALOC is to be placed.
- Step 2:**      In the Role of the ALOC box, select the role for which the ALOC will function by placing the cursor over and clicking one of the circles designated as Defense, Offense or Shared.

Click on the OK button to place the ALOC and to return to the Initialization Menu (Figure 5.13). The Admin/Log Center icon will be grayed out.

Click on the Cancel button to return to the Initialization Menu (Figure 5.13).

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

**5.14 Close Air Support Initialization.**

This section describes the operations necessary to perform the Close Air Support Initialization process.

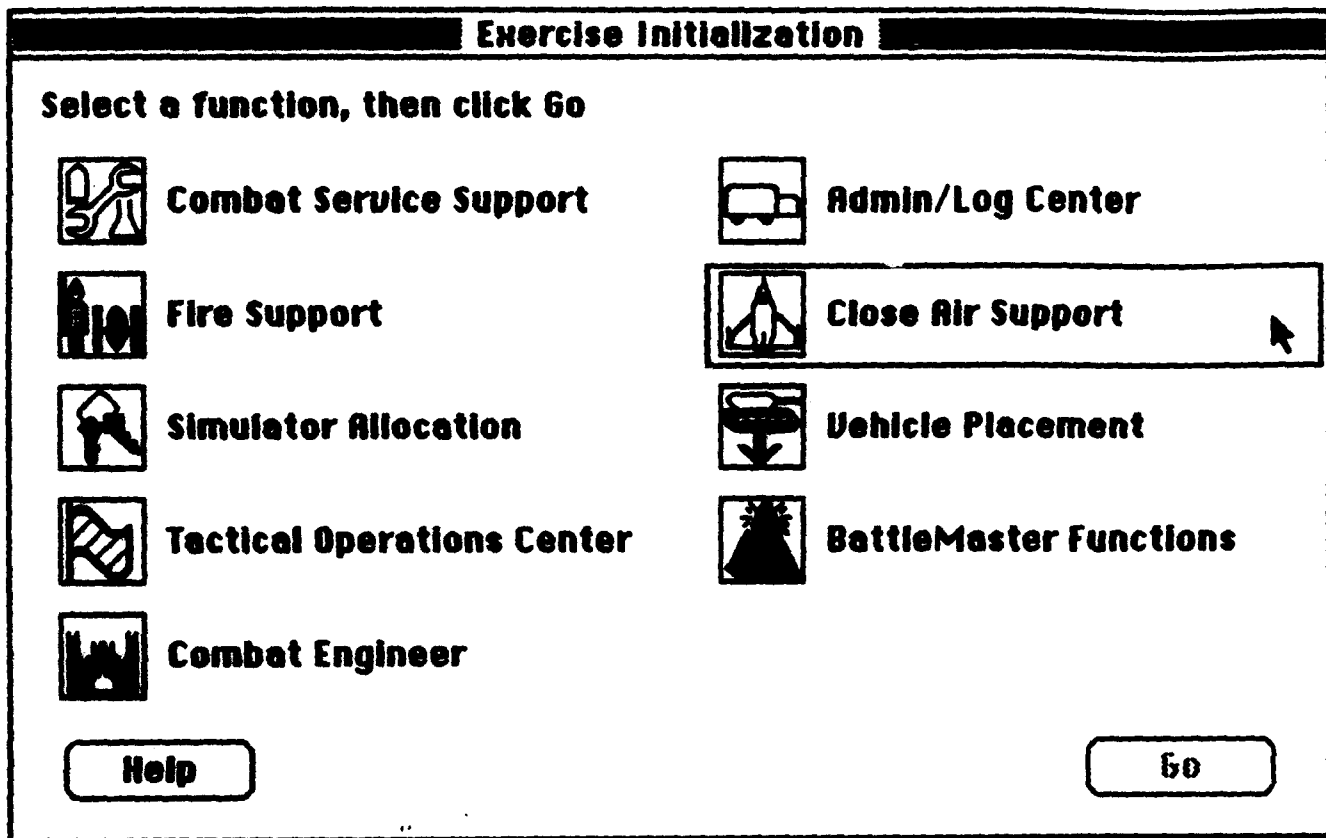


Figure 5.14. Close Air Support Initialization

From Figure 5.14, selecting the Close Air Support icon causes a box to form around it and enables the Go button. Clicking the Go button then brings up the Close Air Support Sorties Initialization screen, as shown in Figure 5.14-1.

**Close Air Support Initialization**

**Enter the number of sorties available during the first day of the operation:**

**Total number of sorties available**

**Number of sorties that may be preplanned**

**NOTE: Clicking the OK button will start the CAS simulation.**

Figure 5.14-1. Close Air Support Sorties Initialization

Each sortie consists of one A10 Fighter Bomber carrying 12 Anti-armor Cluster Bomb Units (CBU). A total of 40 daily sorties may be allocated. Preplanned sorties in excess of 25 and sorties scheduled to strike outside the terrain base will not be accepted by the MCC. Preplanned sorties will be executed at the time requested and the CBU will be delivered exactly on the coordinates specified. On-call sorties are available during the course of an exercise. Response time for on-call sorties is 25 minutes from the time of input at the CAS workstation.

- Step 1:** In the Total Number of Sorties Available box, enter the total number of sorties available for the exercise.
- Step 2:** In the Number of sorties that may be preplanned box, enter the number of sorties that may be preplanned.

Click on the OK button to activate the CAS and to return to the Initialization Menu (Figure 5.14).

Click on the Cancel button to delay the activation of the CAS and to return to the Initialization Menu Figure (5.14).

**5.15 Vehicle Placement Initialization.**

Each vehicle must be individually placed on the selected terrain base before the exercise can begin.

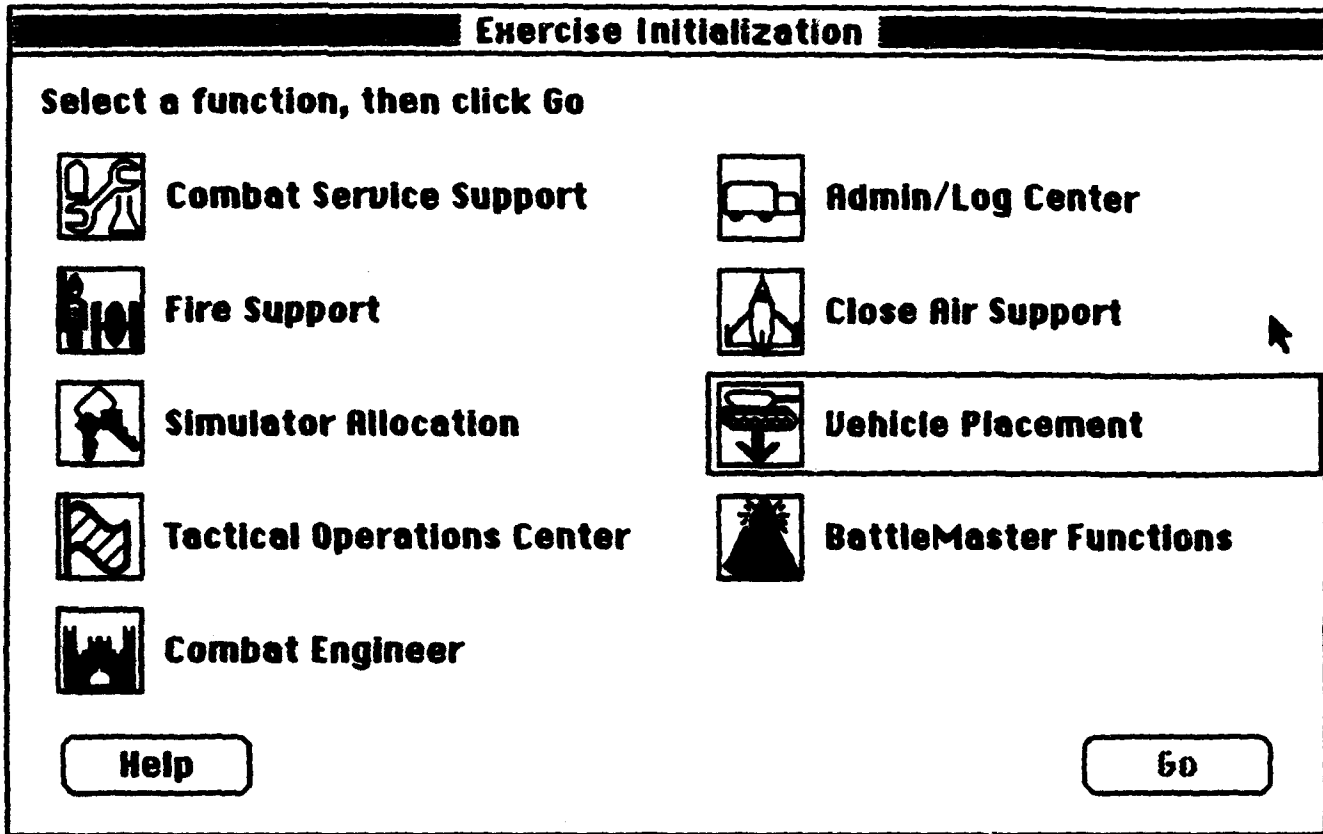


Figure 5.15. Vehicle Placement Selection








From Figure 5.15, selecting the Vehicle Placement icon causes a box to form around it and enables the Go button. Clicking the Go button then brings up the Vehicle Placement Menu, as shown in Figure 5.15-1.

## SIMNET Control Console

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**Vehicle Placement**

**Select a unit whose vehicles you wish to place:**

 <b>A Company</b>	 <b>Bn HQ Tank Section</b>
 <b>B Company</b>	 <b>Scout Platoon</b>
 <b>C Company</b>	 <b>Air Liaison Officer</b>
 <b>D Company</b>	

**NOTE: You must first allocate some simulators to that unit.**

**Help** **Previous** **Next**

Figure 5.15-1. Vehicle Placement Menu

From Figure 5.15-1, select the company, platoon, or section that is ready to be placed. Clicking the selected icon causes a box to surround it and enables the Next button.

Click on the Next button to bring up the Vehicle Simulator Initialization screen, as shown in Figure 5.15-2.

Click on the Previous button to return to the Initialization Menu (Figure 5.15).

**Vehicle Simulator Initialization**

**A Company**

Simulator	Type	Side	Bumper	Location	
9A	FRED				
9C	M2/3				
10A	M1				

**Help** **Overview**

Figure 5.15-2. Simulator Worksheet

Figure 5.15-2 displays all the simulators allocated to the selected unit. To place a simulator, click anywhere on the line containing the selected simulator to bring up the Simulator Placement dialog for an individual simulator, as shown in Figure 5.15-3.

Click on the Overview button to return to Figure 5.15-1.

**FRED Simulator: 9A R Company**

**Helicopter Type**  Attack  Defense  
 Scout  Offense  
 Observer

**Bumper No.**

**Location**

**Azimuth**  (Mils)

**Fuel Load**  (Lbs.)

**Hellfire Missiles**

**Stinger Missiles**

**30 mm HEI**  (Rounds)

**Help** **Cancel** **Place**

Figure 5.15-3. FRED Simulator Placement Dialog

- Step 1:** Click to select the Helicopter Type as either Attack or Scout.
- Step 2:** In the Bumper No. box, enter the Bumper Number for this simulator. This number should be between 0 and 99.
- Step 3:** In the Location box, enter the six or eight-digit coordinates, including the grid zone identifier where the simulator is to be placed.
- Step 4:** In the Azimuth box, enter the heading that the simulator is to face. This number should be between 0 and 6400 Mils.
- Step 5:** In the Fuel Load box, enter the amount of fuel in Lbs (see Notes below).
- Step 6:** In the Hellfire and Stinger Missiles boxes, enter the amount of missiles the simulator will carry (see Notes below).
- Step 7:** In the 30 mm HEI box, enter the number of rounds the simulator will carry (see Notes below).



Step 8: In the Alignment box, select the alignment by clicking one of the circles to specify Offense, Defense, or Observer (see Notes below).

**NOTE**

Fuel and weapon loads automatically default to predefined values maintained in a data file. In most instances, the default value is the maximum amount which can be carried by the vehicle. However, some default values are based on a specific mission configuration. Fuel and weapon loading may be reduced to meet mission and/or Gross Vehicle Weight constraints. If the vehicle is initialized with less than the maximum amount allowed, then it cannot exceed the amount with which it was initialized when resupplied or reconstituted, even though less than the maximum load.

When initialized in absolute configuration, Defense, Offense, and Shared options cannot be selected—only "U.S. or Threat" (Option 1 Defense, Figure 5.2).

Click on the Place button to place the simulator and to return to Figure 5.15-2.

Click on the Cancel button to cancel the input and to return to Figure 5.15-2.

**Vehicle Simulator Initialization**

**A Company M1 Simulator: 10A A Company**

**Bumper No.**

**Location**

**Bow Azimuth**  (Mils)

**Fuel Load**  (Gallons)

**105mm APDS-T**  (Rounds)

**105mm HEAT**  (Rounds)

**Maint. Status**  New  ...  ...  ...  Old

Defense  
 Offense  
 Observer

Figure 5.15-4. M1 Simulator Placement Dialog

- Step 1:** In the Bumper No. box, enter the Bumper Number for this simulator. This number should be between 0 and 99.
- Step 2:** In the Location box, enter the six or eight-digit coordinates, including the grid zone identifier where the simulator is to be placed.
- Step 3:** In the Bow Azimuth box, enter the heading that the simulator is to face. This number should be between 0 and 6400 Mils.
- Step 4:** In the Fuel Load box, enter the amount of fuel in gallons (see Notes below).
- Step 5:** In the ammo boxes, enter the amount of ammunition the simulator will carry (see Notes below).
- Step 6:** In the Maint. Status box, select the age and mileage of the combat vehicle. This selection impacts random maintenance malfunctions during the exercise.

In the Alignment box, select the alignment by clicking one of the circles to specify Offense, Defense, or Observer (see Notes below).

**NOTE**

Fuel and weapon loads automatically default to predefined values maintained in a data file. In most instances, the default value is the maximum amount which can be carried by the vehicle. However, some default values are based on a specific mission configuration. Fuel and weapon loading may be reduced to meet mission and/or Gross Vehicle Weight constraints. If the vehicle is initialized with less than the maximum amount allowed, then it cannot exceed the amount with which it was initialized when resupplied or reconstituted, even though less than the maximum load.

When initialized in absolute configuration, Defense, Offense, and Shared options cannot be selected—only "U.S. or Threat" (Option 1 Defense, Figure 5.2).

Click on the Detail button to allow the turret to be offset from the hull, to vary the fuel load for each tank, and to vary and assign the ammunition by type. The Simulator Detail dialog is shown in Figure 5.15-5.

Click on the Place button to place the simulator and to return to Figure 5.15-2.

Click on the Cancel button to cancel the input and to return to Figure 5.15-2.

**Vehicle Simulator Initialization**

A C

**Turret Azimuth**  (Mils From Bow Azimuth)

<b>Fuel Load By Tank</b>		<b>Capacity</b>
<b>Left Front Tank</b>	<input type="text" value="107"/>	107
<b>Right Front Tank</b>	<input type="text" value="150"/>	150
<b>Rear Tank</b>	<input type="text" value="248"/>	248

<b>Ammunition By Rack</b>	<b>APDS-T</b>	<b>HEAT</b>	<b>Capacity</b>
<b>Ready Rack</b>	<input type="text" value="11"/>	<input type="text" value="11"/>	22
<b>Semi-Ready Rack</b>	<input type="text" value="13"/>	<input type="text" value="9"/>	22
<b>Turret Floor &amp; Hull</b>	<input type="text" value="11"/>	<input type="text" value="0"/>	11

Figure 5.15-5. M1 Simulator Detail Dialog

Clicking the Detail button on Figure 5.15-4 causes the Simulator Detail dialog to appear as shown in Figure 5.15-5. Displayed data on this screen may be changed as required.

- Step 1: Change the Turret Azimuth.
- Step 2: Change the fuel distribution.
- Step 3: Change the ammunition distribution.

Click on the OK button to return to Figure 5.15-4.

Click on the Cancel button to leave the simulator in its current status and to return to Figure 5.15-4.

**NOTE**

Samples of Simulator Placement dialog and Simulator Detail dialog for different types of simulators are shown in Figure 5.15-6 and 5.15-7.

**M2/3 Simulator: 9C      A Company**

**Bumper No.**   Defense

**Location**   Offense

**Bow Azimuth**  (Mils)  Observer

**Fuel Load**  (Gallons)

**AP Bin Load**  **Rounds Of**  APDS-T  HEI-T

**HE Bin Load**  **Rounds Of**  APDS-T  HEI-T

**Stowed APDS-T**  **TOW Missiles**

**Stowed HEI-T**  **DRAGON Missiles**

**Maint. Status**  New  ...  ...  ...  Old

**Configuration**  M2  M3

**Help** **Cancel** **Detail** **Place**

Figure 5.15-6. M2/3 Simulator Placement Dialog

M2/3 Simulator: 9C      A Company

Turret Azimuth      0      (Mils From Bow Azimuth)

Fuel Load By Tank      Capacity

Top Tank	30	30
Bottom Tank	145	145

TOW Launcher       Tube 1 Loaded  
                          Tube 2 Loaded

Stowed Missiles      Capacity

TOW Missiles	5	} 5
DRAGON Missiles	0	

Help      Cancel      OK

help      cancel      return      F1000

Figure 5.15-7. M2/3 Simulator Detail Dialog

### 5.16 BattleMaster Functions.

This section describes the BattleMaster functions. Some of these functions are duplicates of those found in the Initialization Menu. The advantage of the BattleMaster function menu is that an entire training exercise, or a portion of an exercise, may be reset without having to end the exercise and to reinitialize. This allows one unit to be reset while other units continue their training. The user may select the BattleMaster icon from this screen any time during initialization and the conduct of the battle exercise.

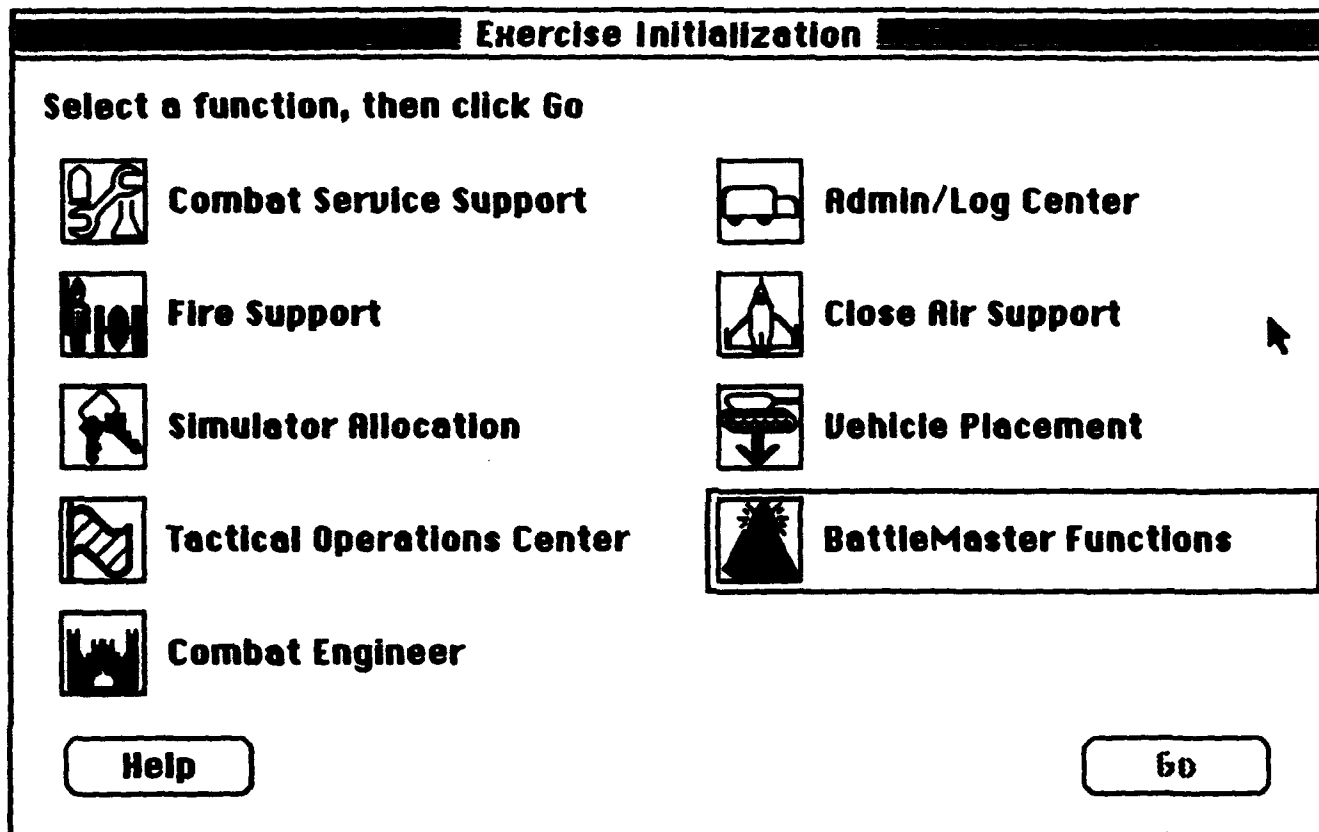


Figure 5.16. BattleMaster Selection

Clicking the GO button on the Initialization Menu, with the BattleMaster icon selected as shown in Figure 5.16, causes a password box (Figure 5.16-1) to appear. With the proper password entered, clicking the GO button on the entry box will open the BattleMaster Functions menu, as shown in Figure 5.16-2. Incorrect password will produce a dialog box reflecting that fact.

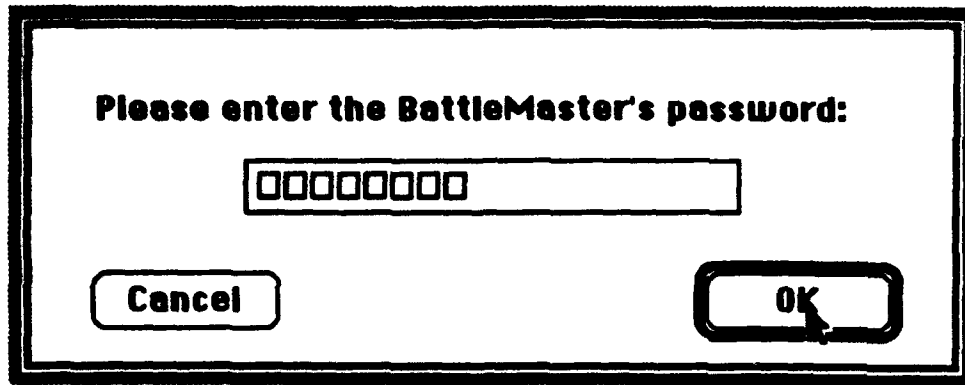


Figure 5.16-1. BattleMaster Password

The BattleMaster Functions menu, as shown in Figure 5.16-2, allows the BattleMaster to perform the functions shown on the screen. As in earlier initialization phases, selecting a function will cause that function to be enclosed in a box, and then clicking the GO button will open the follow-on screens that allow input of data necessary to execution of the function.

#### 5.16.1 Displacement.

This function allows the displacement of exercise elements, as shown in Figure 5.16.1-1, during the course of the battle simulation. Selecting the Displacement icon and clicking the GO button on the BattleMaster Functions menu, as shown in Figure 5.16.1, brings up the Elements Displacement screen, as shown in Figure 5.16.1-1.



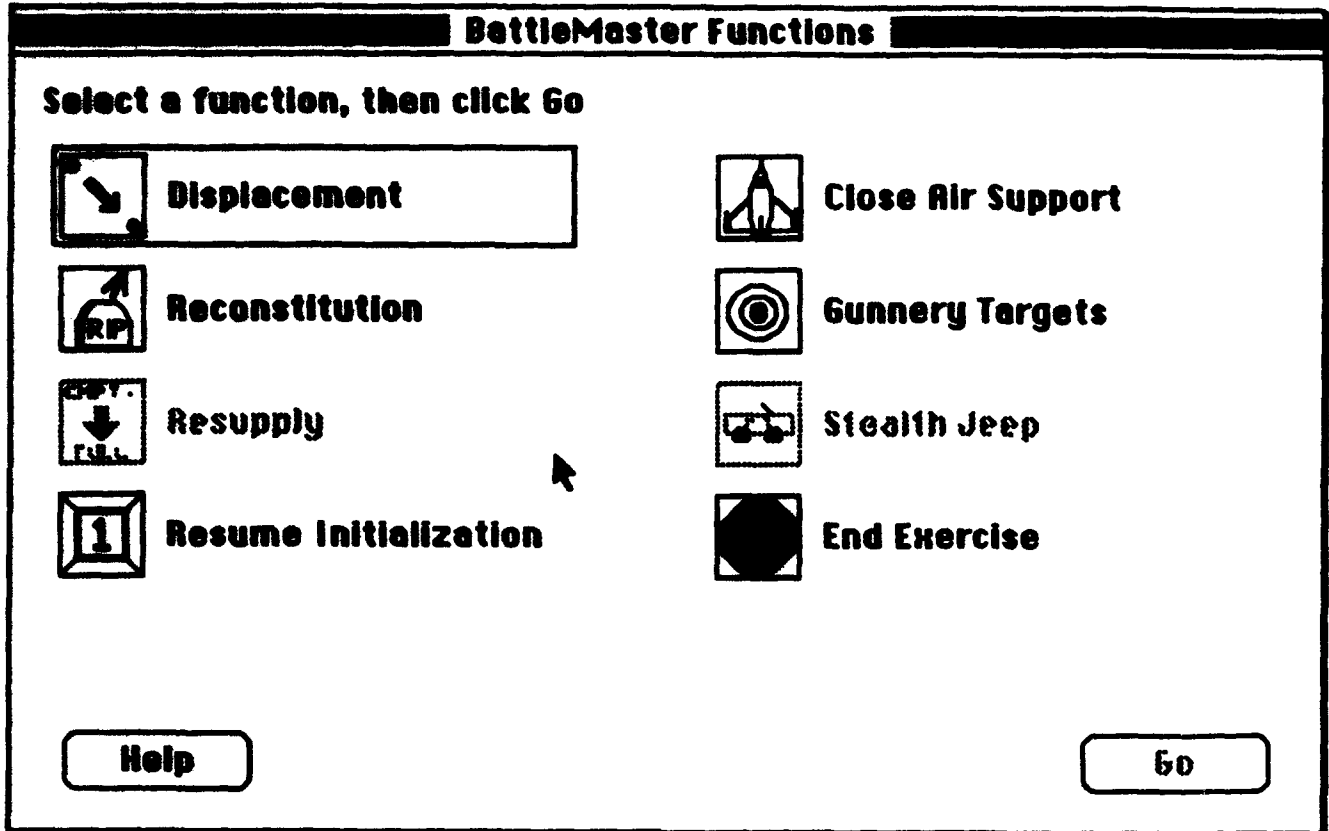


Figure 5.16.1. Displacement Selection

**Displacement**

Select one of the following elements to displace or halt

Type	Unit	Status	ETA
TOC	Battery 1 (R)	Located at NB65600315	
ALOC			
UMCP			
Depots			

Figure 5.16.1-1. Element Type/Unit Selection

Figure 5.16.1-1 allows the selection of an Unit from a chosen Type to be displaced.

The list of displayed Units associated with an element Type is automatically updated when another element Type is selected.

**Step 1:** Click on a line in the Type box to select the element Type.

**Step 2:** Click on a line in the Unit box to select the Unit of the selected element Type to be moved.

Click on the Next button to bring up the Displacement dialog, as shown in Figure 5.16.1-2, if the Unit is not in transit. If the Unit is in transit, the In Transit dialog will appear as shown in Figure 5.16.1-3.

Click on the Overview button to return to the BattleMaster Functions Menu (Figure 5.16).

The dialog box is titled "Displace Battery 1 (L)" and shows the current location as "Located at NB65600315". It contains a "New Location" text input field, an "ETA" label, and three buttons: "Cancel", "Compute ETA", and "Dispatch". A mouse cursor is positioned over the "Compute ETA" button.

Figure 5.16.1-2. Displacement Dialog

- In the New Location box, enter the six or eight-digit coordinates of the new location.
- Click on the **Compute ETA** button to calculate and to display the Estimated Time of Arrival.
- Click on the **Dispatch** button to dispatch the unit and to return to the BattleMaster Functions Menu (Figure 5.16.1).
- Click on the **Cancel** button to return to the BattleMaster Function Menu (Figure 5.16.1).

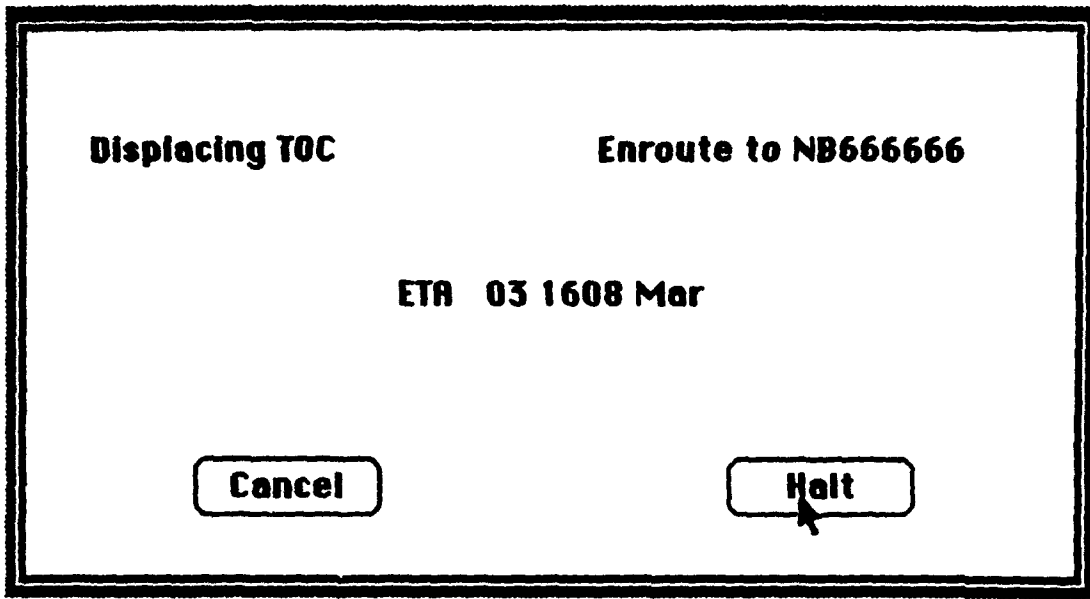


Figure 5.16.1-3. In Transit Dialog

Click on the **Halt** button to halt the unit in transit and to return to the BattleMaster Function Menu (Figure 5.16.1).

Click on the **Cancel** button to return to the BattleMaster Function Menu (Figure 5.16.1).

### 5.16.2 Reconstitution.

The SIMNET Control Console gives the BattleMaster the ability to restore to full operation any previously initialized simulated elements, be it a crewed combat vehicle or a MCC computer-controlled vehicle.

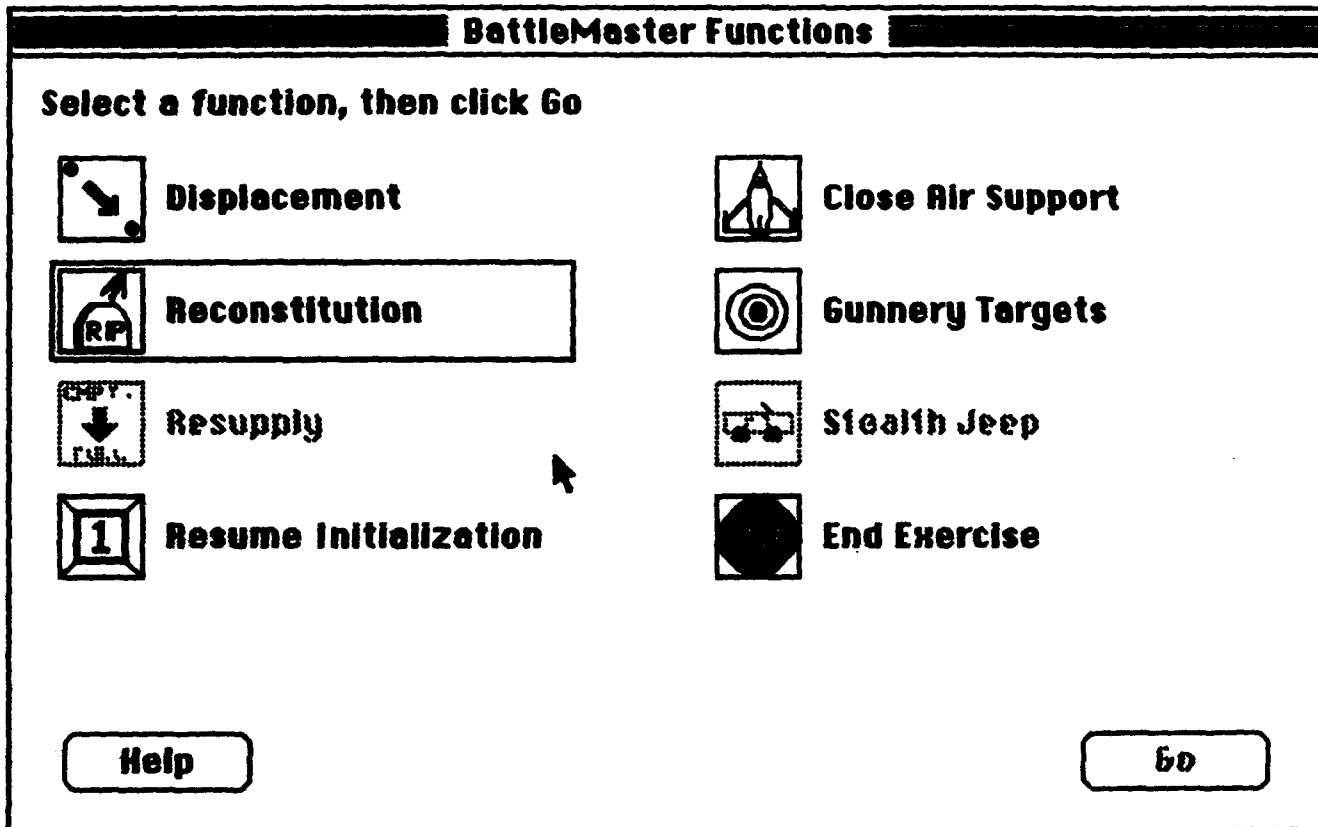


Figure 5.16.2. Reconstitution Selection

Selecting the Reconstitution icon and clicking the GO button on the BattleMaster Functions Menu brings up the Reconstitute Elements screen, as shown in Figure 5.16.2-1.

## 5.16.2.1 Reconstitute Simulators

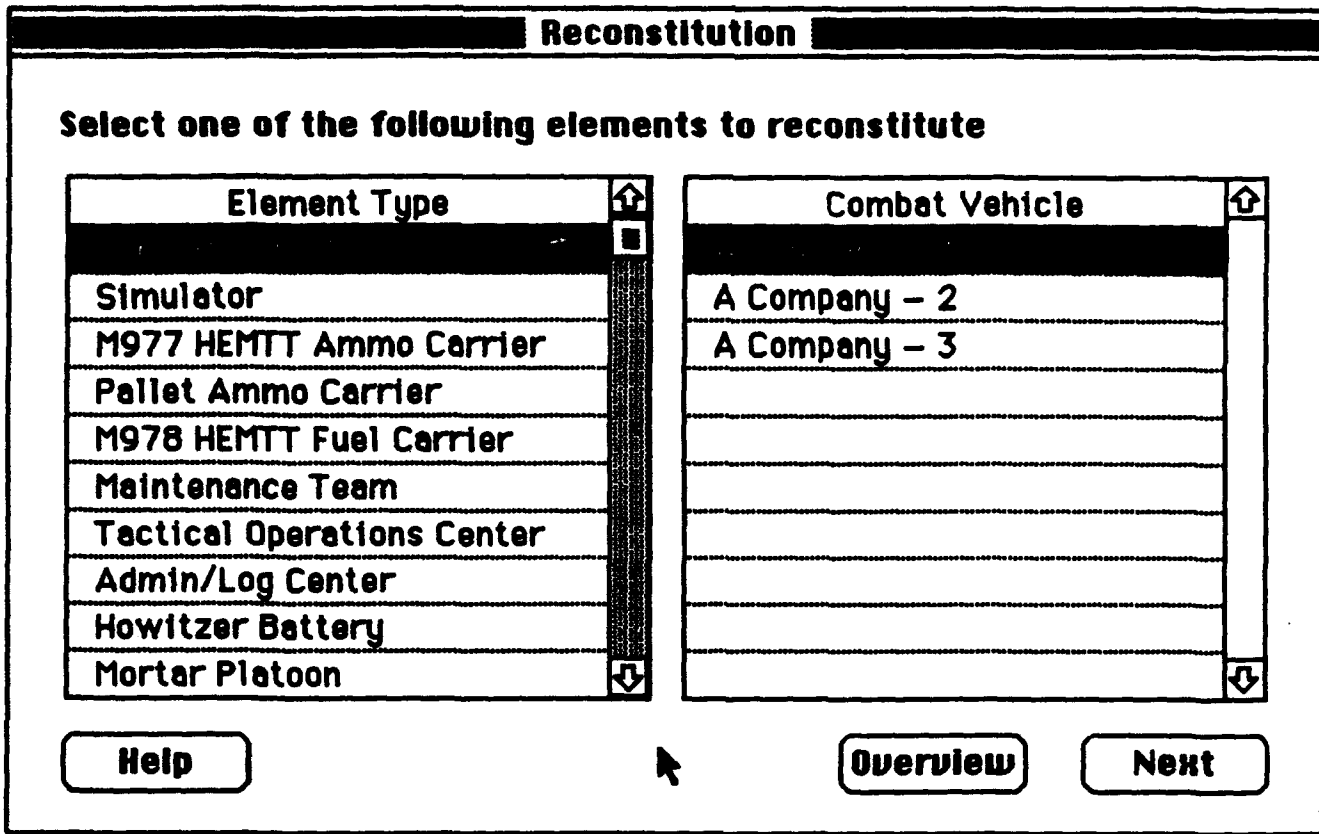


Figure 5.16.2.1. Reconstitute Simulators Selection

Select the Combat Vehicle or Simulator Element Type to be reconstituted, as shown in Figure 5.16.2.1.

**Step 1:** Click to select the Simulator from the Element Type column. The right column will then display all simulators that have been placed by company and bumper number.

**Step 2:** Click to select the Unit to be reconstituted.

Clicking on the Next button with a selected element brings up a subsequent screen, as shown in Figure 5.16.2.1, appropriate to the Element type selected.

Click on the Overview button to return to the BattleMaster Function Menu (Figure 5.16).

Reconstitution		
<b>FRED Simulator:</b>	9A	A Company
<b>Helicopter Type</b>	<input checked="" type="radio"/> Attack	
	<input type="radio"/> Scout	
<b>Bumper No.</b>	<input type="text" value="1"/>	
<b>Location</b>	<input type="text"/>	
<b>Azimuth</b>	<input type="text"/>	(Mils)
<b>Fuel Load</b>	<input type="text" value="2444"/>	(Lbs.)
<b>Hellfire Missiles</b>	<input type="text" value="16"/>	
<b>Stinger Missiles</b>	<input type="text" value="4"/>	
<b>30 mm HEI</b>	<input type="text" value="1200"/>	(Rounds)
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px 15px;">Help</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px 15px;">Cancel</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px 15px;">Reconstitute</div> </div>		

Figure 5.16.2.1-1. FRED Simulator Status

This is identical to the vehicle placement screen and accomplishes the same functions. The screen appears with the current location, azimuth, fuel, and ammunition status of the identified simulator.

**Step 1:** Click to select the Helicopter Type to be either Attack or Scout.

**Step 2:** To change any data, click on the selected data box, and then type the new information.

Click on the **Cancel** button to leave the simulator in its current status and to return to Figure 5.16.

Click on the **Reconstitute** button to place the simulator based on the displayed information and to return to Figure 5.16.

Repeat the procedure for each simulator to be reconstituted.

**NOTE**

Any decrement in fuel or weapon loads during reconstitution will result in a "new, lower maximum" value for the remainder of the exercise. Any subsequent resupply or reconstitution will now be limited to the lowest value used during initialization or reconstitution.  
 The Masscomp Host MCC reconstitutes the vehicle at its last location unless changed by the operator.

Reconstitution			
<b>M1 Simulator:</b>	10A	A Company	
<b>Bumper No.</b>	<input type="text" value="3"/>	<input type="radio"/> Defense <input type="radio"/> Offense <input checked="" type="radio"/> Observer	
<b>Location</b>	<input type="text"/>		
<b>Bow Azimuth</b>	<input type="text"/>	(Mils)	
<b>Fuel Load</b>	<input type="text" value="505"/>	(Gallons)	
<b>105mm APDS-T</b>	<input type="text" value="35"/>	(Rounds)	
<b>105mm HEAT</b>	<input type="text" value="20"/>	(Rounds)	
<b>Maint. Status</b>	<input checked="" type="radio"/> New <input type="radio"/> ... <input type="radio"/> ... <input type="radio"/> ... <input type="radio"/> Old		
<input type="button" value="Help"/> <input type="button" value="Cancel"/> <input type="button" value="Detail"/> <input type="button" value="Reconstitute"/>			

Figure 5.16.2.1-2. M1 Simulator Status

This is identical to the vehicle placement screen and accomplishes the same functions. The screen appears with the current location, azimuth, fuel and ammunition status of the identified simulator.

To change any data, click on the selected data box, and then type the new information.

Click on the **Cancel** button to leave the simulator in its current status and to return to Figure 5.16.



Click on the Detail button to bring up the Simulator Detail, as shown in Figure 5.16.2.1-3.

Click on the Reconstitute button to place the simulator based on the displayed information and to return to Figure 5.16.

Repeat the procedure for each simulator to be reconstituted.

**NOTE**

- Any decrement in fuel or weapon loads during reconstitution will result in a "new, lower maximum" value for the remainder of the exercise. Any subsequent resupply or reconstitution will now be limited to the lowest value used during initialization or reconstitution.
- The Masscomp Host MCC reconstitutes the vehicle at its last location unless changed by the operator.

<b>Turret Azimuth</b>	<input type="text" value="0"/>	<b>(Mills From Bow Azimuth)</b>	
<b>Fuel Load By Tank</b>		<b>Capacity</b>	
Left Front Tank	<input type="text" value="107"/>	<input type="text" value="107"/>	
Right Front Tank	<input type="text" value="150"/>	<input type="text" value="150"/>	
Rear Tank	<input type="text" value="248"/>	<input type="text" value="248"/>	
<b>Ammunition By Rack</b>	<b>APDS-T</b>	<b>HEAT</b>	<b>Capacity</b>
Ready Rack	<input type="text" value="11"/>	<input type="text" value="11"/>	<input type="text" value="22"/>
Semi-Ready Rack	<input type="text" value="13"/>	<input type="text" value="9"/>	<input type="text" value="22"/>
Turret Floor & Hull	<input type="text" value="11"/>	<input type="text" value="0"/>	<input type="text" value="11"/>
<input type="button" value="Help"/>		<input type="button" value="Cancel"/>	<input type="button" value="OK"/>

Figure 5.16.2.1-3. M1 Simulator Detail Dialog

Clicking the Detail button on Figure 5.16.2.1-2 causes the Simulator Detail Dialog to appear, as shown in Figure 5.16.2.1-3. Displayed data on this screen may be changed as required.

**Step 1:** Change the Turret Azimuth.

Step 2: Change the fuel distribution.

Step 3: Change the ammunition distribution.

Click on the OK button to return to Figure 5.16.2.2.

Click on the Cancel button to leave the simulator in its current status and to return to Figure 5.16.2.2.

**NOTE**

Samples of Simulator Reconstitution dialog and Simulator Detail dialog for different types of simulators are shown in Figures 5.16.2.1-4 and 5.16.2.1-5.

Reconstitution			
<b>M2/3 Simulator:</b>	<b>9C</b>	<b>A Company</b>	
<b>Bumper No.</b>	<input type="text" value="2"/>		
<b>Location</b>	<input type="text"/>		<input type="radio"/> Defense
<b>Bow Azimuth</b>	<input type="text"/>	(Mils)	<input type="radio"/> Offense
<b>Fuel Load</b>	<input type="text" value="175"/>	(Gallons)	<input checked="" type="radio"/> Observer
<b>AP Bin Load</b>	<input type="text" value="70"/>	<b>Rounds Of</b>	<input checked="" type="radio"/> APDS-T <input type="radio"/> HEI-T
<b>HE Bin Load</b>	<input type="text" value="230"/>	<b>Rounds Of</b>	<input type="radio"/> APDS-T <input checked="" type="radio"/> HEI-T
<b>Stowed APDS-T</b>	<input type="text" value="300"/>	<b>TOW Missiles</b>	<input type="text" value="7"/>
<b>Stowed HEI-T</b>	<input type="text" value="300"/>	<b>DRAGON Missiles</b>	<input type="text" value="0"/>
<b>Maint. Status</b>	<input checked="" type="radio"/> New	<input type="radio"/> ...	<input type="radio"/> ...
<b>Configuration</b>	<input checked="" type="radio"/> M2	<input type="radio"/> M3	<input type="radio"/> Old
<input type="button" value="Help"/>		<input type="button" value="Cancel"/>	<input type="button" value="Detail"/>
<input type="button" value="Reconstitute"/>			

Figure 5.16.2.1-4. M2/3 Simulator Status

<b>Turret Azimuth</b>	<input type="text" value="0"/>	<b>(Mils From Bow Azimuth)</b>
<b>Fuel Load By Tank</b>		<b>Capacity</b>
<b>Top Tank</b>	<input type="text" value="30"/>	30
<b>Bottom Tank</b>	<input type="text" value="145"/>	145
<b>TOW Launcher</b>	<input checked="" type="checkbox"/> <b>Tube 1 Loaded</b>	
	<input checked="" type="checkbox"/> <b>Tube 2 Loaded</b>	
<b>Stowed Missiles</b>		<b>Capacity</b>
<b>TOW Missiles</b>	<input type="text" value="5"/>	) 5
<b>DRAGON Missiles</b>	<input type="text" value="0"/>	
<input type="button" value="Help"/>		<input type="button" value="Cancel"/>
		<input type="button" value="OK"/>

Figure 5.16.2.1-5. M2/3 Simulator Detail Dialog

5.16.2.2 Reconstitute TOC.

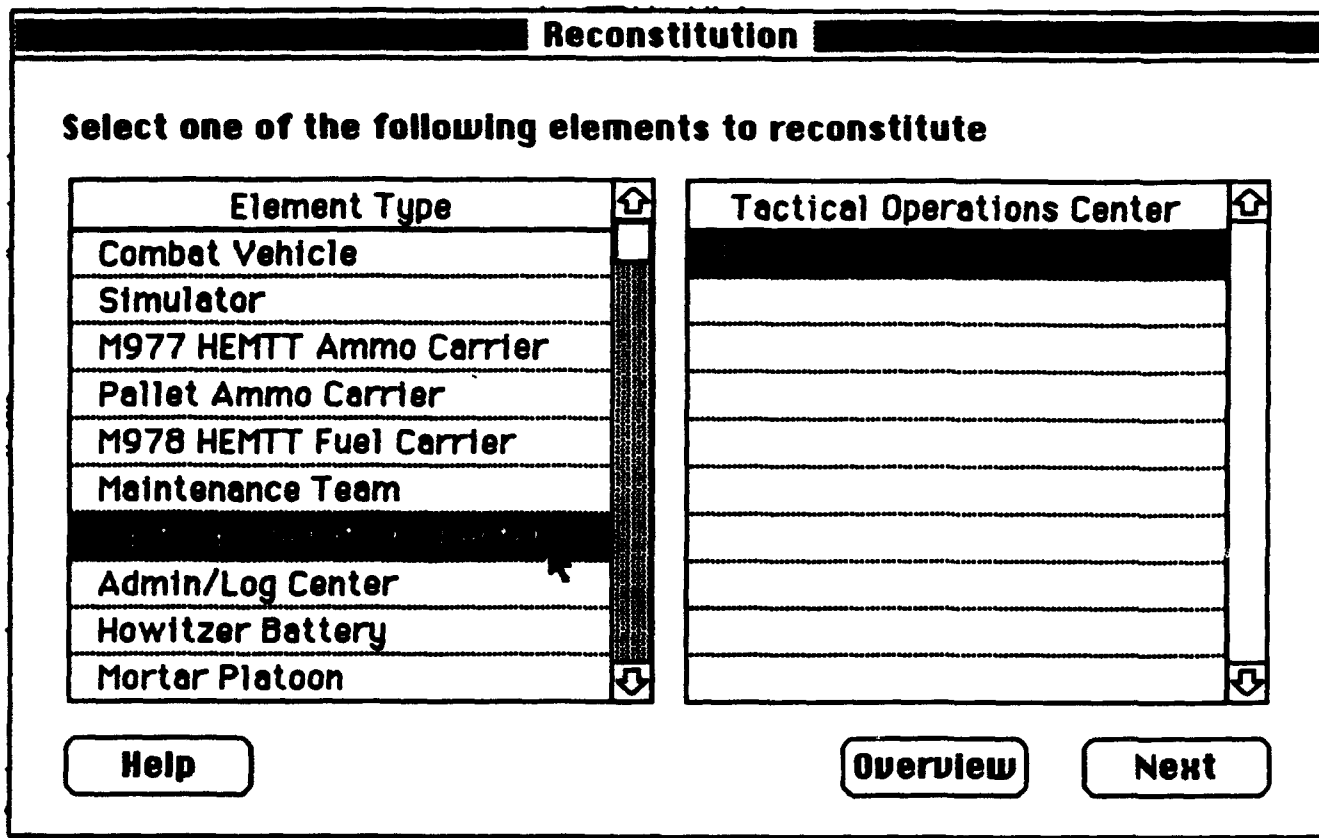


Figure 5.16.2.2. Reconstitute TOC Selection

Select the TOC for reconstitution, as shown in Figure 5.16.2.2.

Step 1: Click to select the Tactical Operation Center from the Element Type. The right column will then display all TOCs that have been placed.

Step 2: Click to select the TOC Unit to be reconstituted.

Clicking on the Next button with a selected element brings up a subsequent screen, as shown in Figure 5.16.2.2-1.

Click on the Overview button to return to the BattleMaster Function Menu.

**Reconstitution**

**Role of the TOC**       Defense                       Offense  
 **Shared for a local force-on-force exercise**

**TOC Location**             

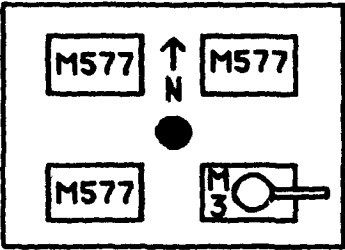
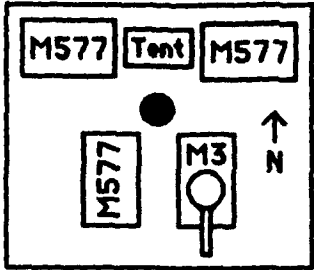
**TOC Arrangement**              

Figure 5.16.2.2-1. Reconstitute TOC Detail

On the Reconstitute TOC Detail screen, as shown in Figure 5.16.2.2-1:

- Step 1:**      In the TOC Location box, enter the six or eight-digit grid coordinates including the zone designator where the TOC is to be located.
- Step 2:**      The Role of the TOC and the TOC Arrangement by which the TOC will function may be designated at this stage by placing the cursor over and clicking one of the circles designated as Defense, Offense, or Shared, and then selecting an applicable Arrangement.

Click on the **Reconstitute** button to place the TOC and to return to Figure 5.16.2.2.

Click on the **Cancel** button to return to Figure 5.16.2.2.

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

**5.16.2.3 Reconstitute Fuel Vehicles.**

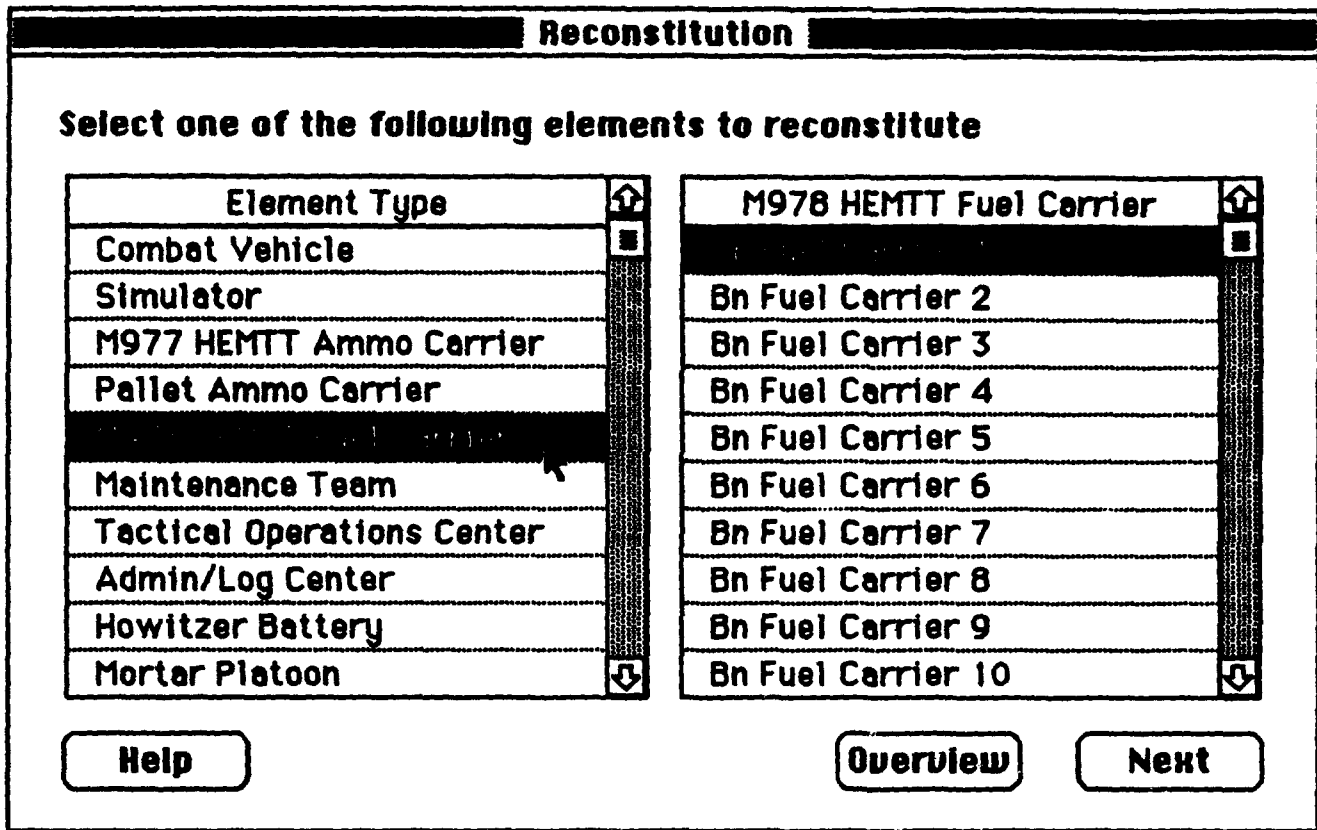


Figure 5.16.2.3. Reconstitute Fuel Carrier Selection

Select the M978 HEMTT Fuel Carrier for reconstitution, as shown in Figure 5.16.2.3.

- Step 1: Click to select the M978 HEMTT Fuel Carrier from the Element Type. The right column will then display all Fuel carriers that have been placed.
- Step 2: Click to select the Fuel Carrier Unit to be reconstituted.

Clicking on the Next button with a selected element brings up a subsequent screen, as shown in Figure 5.16.2.3-1.

Click on the Overview button to return to the BattleMaster Function Menu.

<b>Vehicle 1</b>		
<b>Assigned To</b>	<input type="radio"/> A Co	<input type="radio"/> B Co
	<input type="radio"/> C Co	<input type="radio"/> D Co
	<input checked="" type="radio"/> Bn	
<b>Alignment</b>	<input type="radio"/> Defense	<input type="radio"/> Offense
	<input checked="" type="radio"/> Shared	
<b>Initial Location</b>	<input type="text" value="NB300202"/>	
<b>Initial Load</b>	<input type="text" value="2500"/>	(Gallons)
<input type="button" value="Cancel"/> <input type="button" value="Restore Defaults"/> <input checked="" type="button" value="OK"/>		

Figure 5.16.2.3-i. Fuel Carrier Detail

On the Reconstitute Fuel Carrier Detail screen, as shown in Figure 5.16.2.3-1:

- Step 1:** Click to assign the fuel carrier to one of the companies or the Battalion.
- Step 2:** Click to select the Alignment.
- Step 3:** In the Initial Location box, enter the six or eight-digit grid coordinates including the zone designator where the Fuel carrier is to be located.
- Step 4:** In the Initial Load box, enter the amount of fuel desired. Do not exceed 2500 gallons.

Click on the OK button to activate the Fuel Carrier and to return to BattleMaster Functions Menu.

Click on the Restore Defaults button to automatically place 2500 gallons in the vehicle and to return to Figure 5.16.2.3.



**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

See also Figure 5.85, Fuel Carrier Detail.

**5.16.2.4 Reconstitute Ammo Vehicles.**

Reconstitution																																											
Select one of the following elements to reconstitute																																											
<table border="1"> <thead> <tr> <th>Element Type</th> <th></th> </tr> </thead> <tbody> <tr><td>Combat Vehicle</td><td></td></tr> <tr><td>Simulator</td><td></td></tr> <tr><td>M977 HEMTT Ammo Carrier</td><td></td></tr> <tr><td>Pallet Ammo Carrier</td><td></td></tr> <tr><td>M978 HEMTT Fuel Carrier</td><td></td></tr> <tr><td>Maintenance Team</td><td></td></tr> <tr><td>Tactical Operations Center</td><td></td></tr> <tr><td>Admin/Log Center</td><td></td></tr> <tr><td>Howitzer Battery</td><td></td></tr> <tr><td>Mortar Platoon</td><td></td></tr> </tbody> </table>	Element Type		Combat Vehicle		Simulator		M977 HEMTT Ammo Carrier		Pallet Ammo Carrier		M978 HEMTT Fuel Carrier		Maintenance Team		Tactical Operations Center		Admin/Log Center		Howitzer Battery		Mortar Platoon		<table border="1"> <thead> <tr> <th>M977 HEMTT Ammo Carrier</th> <th></th> </tr> </thead> <tbody> <tr><td>Bn Ammo Carrier 2</td><td></td></tr> <tr><td>Bn Ammo Carrier 3</td><td></td></tr> <tr><td>Bn Ammo Carrier 4</td><td></td></tr> <tr><td>Bn Ammo Carrier 5</td><td></td></tr> <tr><td>Bn Ammo Carrier 6</td><td></td></tr> <tr><td>Bn Ammo Carrier 7</td><td></td></tr> <tr><td>Bn Ammo Carrier 8</td><td></td></tr> <tr><td>Bn Ammo Carrier 9</td><td></td></tr> <tr><td>Bn Ammo Carrier 10</td><td></td></tr> </tbody> </table>	M977 HEMTT Ammo Carrier		Bn Ammo Carrier 2		Bn Ammo Carrier 3		Bn Ammo Carrier 4		Bn Ammo Carrier 5		Bn Ammo Carrier 6		Bn Ammo Carrier 7		Bn Ammo Carrier 8		Bn Ammo Carrier 9		Bn Ammo Carrier 10	
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Bn Ammo Carrier 9																																											
Bn Ammo Carrier 10																																											
<b>Help</b>	<b>Overview</b> <b>Next</b>																																										

Figure 5.16.2.4. Reconstitute Ammo Carrier Selection

Select the M977 HEMTT Ammo Carrier for reconstitution, as shown in Figure 5.16.2.4.

**Step 1:** Click to select the M977 HEMTT Ammo Carrier from the Element Type. The right column will then display all Ammo carriers that have been placed.

**Step 2:** Click to select the Ammo carrier Unit to be reconstituted.

Clicking on the Next button with a selected element brings up a subsequent screen, as shown in Figure 5.16.2.4-1.

Click on the Overview button to return to the BattleMaster Function Menu.

**Vehicle 1**

**Assigned To**       A Co    B Co    C Co    D Co    Bn

**Alignment**       Defense    Offense    Shared

**Initial Location**   

**Initial Load**

Ammo Type	Quantity	Ibs.	cu. ft.	
105 mm HEAT	160	10958	360	↑ ↓
105 mm APDS	122	8355	274	
20 mm HEI	15	1089	19	
20 mm PIE	15	1089	19	

**Totals: 21492 lbs., 673 cu. ft.**

Figure 5.16.2.4-1. Ammo Carrier Detail

On the Reconstitute Ammo Carrier Detail screen as shown in Figure 5.16.2.4-1:

- Step 1:      Click to assign the Ammo carrier to one of the companies or the Battalion.
- Step 2:      Click to select the Alignment.
- Step 3:      In the Initial Location box, enter the six or eight-digit grid coordinates including the zone designator where the Fuel carrier is to be located.
- Step 4:      Click on the Initial Load box to bring up the Ammo Transfer dialog, as shown in Figure 5.16.2.4-2.

Click on the **OK** button to reconstitute the Ammo Carrier and to return to the BattleMaster Functions Menu.

Click on the **Restore Defaults** button to restore the full, original load of ammunition to the vehicle and to return to Figure 5.16.2.4.

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

See also Figure 5.8-10, Ammunition Carrier Detail.

**Depot**

Ammo Type	Quantity	lbs.	cu. ft.	
APF Scat mine	--	--	--	↑
20 mm HEI	--	--	--	
Hydra70 101b	--	--	--	↓

← →

**Vehicle 1**

Ammo Type	Quantity	lbs.	cu. ft.	
105 mm APDS	122	8355	274	
20 mm HEI	15	1089	19	
20 mm PIE	15	1089	19	↓

**Weight: 21492 lbs.**  
**Volume: 673 cu. ft.**

Transfer Quantity

Figure 5.16.2.4-2 Ammo Transfer

On the Ammo Transfer screen, as shown in Figure 5.16.2.4-2:

- Step 1: Click on the type of ammunition to be transferred.
- Step 2: Click the left arrow to add ammunition to the truck from the depot, or the right arrow to remove the ammunition from the truck and put it into the depot.

**Step 3:** Enter the quantity of ammunition to be transferred: number of rounds for 105mm, and number of boxes for 25mm.

Click on the **Transfer** button to begin the transfer. Repeat steps 1-3 for each type of ammunition.

Click on the **Done** button to return to Figure 5.15.2.4-1.

### 5.16.2.5 Reconstitute Maintenance Team.

**Reconstitution**

**Select one of the following elements to reconstitute**

Element Type	Maintenance Team
Combat Vehicle	
Simulator	
M977 HEMTT Ammo Carrier	Bn Maintenance Team 2
Pallet Ammo Carrier	Bn Maintenance Team 3
M978 HEMTT Fuel Carrier	Bn Maintenance Team 4
	Bn Maintenance Team 5
Tactical Operations Center	Bn Maintenance Team 6
Admin/Log Center	Bn Maintenance Team 7
Howitzer Battery	Bn Maintenance Team 8
Mortar Platoon	Bn Maintenance Team 9
	Bn Maintenance Team 10

Help

Overview

Next

Figure 5.16.2.5. Reconstitute Maintenance Team Selection

Select the Maintenance Team for reconstitution, as shown in Figure 5.16.2.5.

**Step 1:** Click to select the Maintenance Team from the Element Type. The right column will then display all Maintenance Teams that have been placed.

**Step 2:** Click to select which team to be reconstituted.

Clicking on the Next button with a selected team brings up a subsequent screen, as shown in Figure 5.16.2.5-1.

Click on the Overview button to return to the BattleMaster Function Menu.

**Vehicle 1**

**Assigned To**       A Co    B Co    C Co    D Co    Bn

**Alignment**       Defense    Offense    Shared

**Initial Location**  

Figure 5.16.2.5-1. Maintenance Team Detail

On the Maintenance Team Detail screen, as shown in Figure 5.16.2.5-1:

**Step 1:** Click to assign the Maintenance Team to one of the companies or the Battalion.

**Step 2:** Click to select the Alignment.

**Step 3:** In the Initial Location box, enter the six or eight-digit grid coordinates including the zone designator where the Maintenance Team is to be located.

Click on the OK button to activate the Maintenance Team and to return to Figure 5.16.2.5.

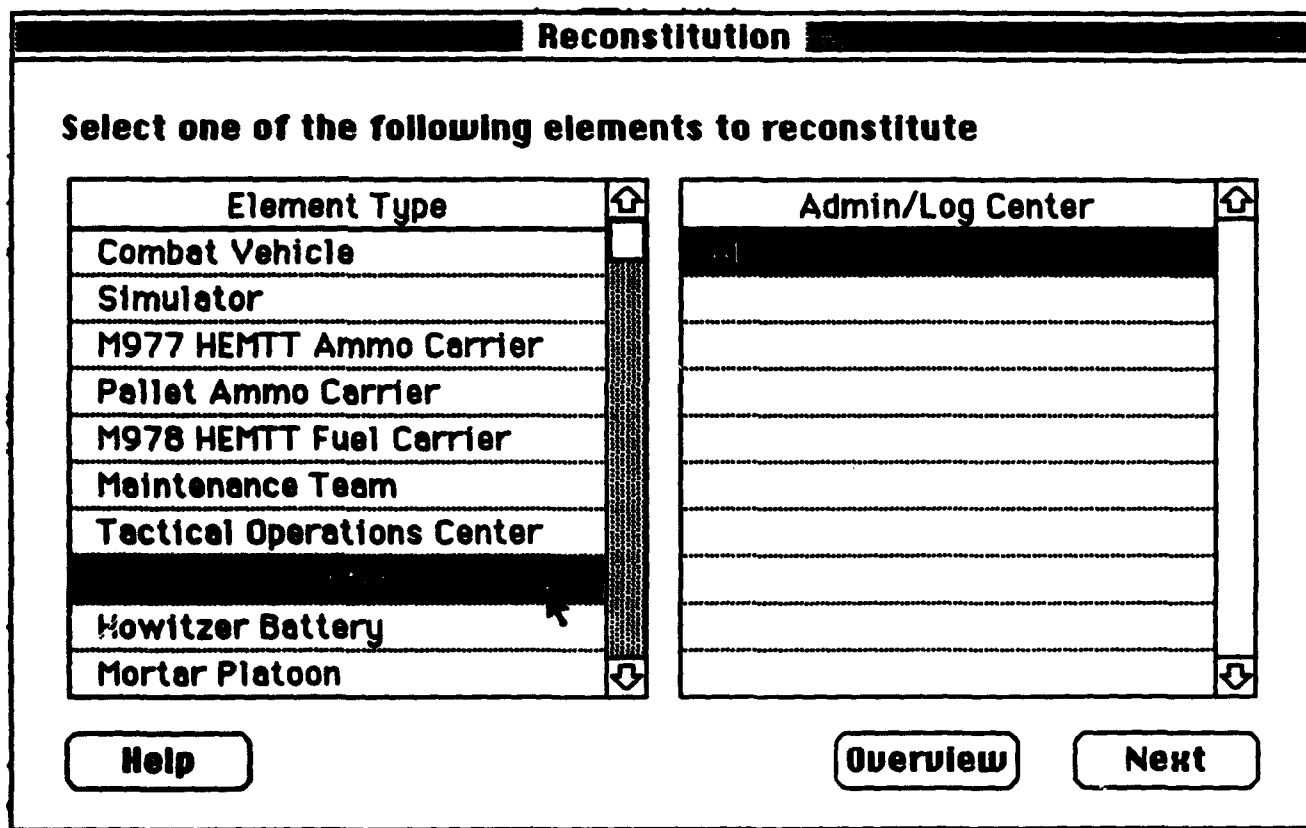
Click on the Restore Defaults button to restore the default data and to return to Figure 5.16.2.5.

**NOTE**

Defense, Offense and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

See also Figure 5.8-17, Maintenance Team Detail.

**5.16.2.6 Reconstitute Admin/Log Center**



**Figure 5.16.2.6. Reconstitute Admin/Log Center Selection**

Select the Admin/Log Center for reconstitution, as shown in Figure 5.16.2.6.

**Step 1:** Click to select the Admin/Log Center from the Element Type. The right column will then display all ALOC that have been placed.

Step 2: Click to select which ALOC to be reconstituted.

Clicking on the Next button with a selected team brings up a subsequent screen, as shown in Figure 5.16.2.6-1.

Click on the Overview button to return to the BattleMaster Function menu.

**Reconstitution**

Role of the ALOC       Defense       Offense  
                                  Shared for a local force-on-force exercise

ALOC Location     

Figure 5.16.2.6-1. Admin/Log Center Detail

On the Admin/Log Center Detail screen, as shown in Figure 5.16.2.6-1:

Step 1: Click to select the Alignment.

Step 2: In the ALOC Location box, enter the six-digit grid coordinates including the zone designator where the ALOC is to be located.

Click on the Reconstitute button to activate the ALOC and to return to Figure 5.16.2.6.

Click on the Cancel button to return to Figure 5.16.2.6.

**NOTE**

Defense, Offense, and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.

See also Figure 5.13-1, Admin/Log Center Initialization.

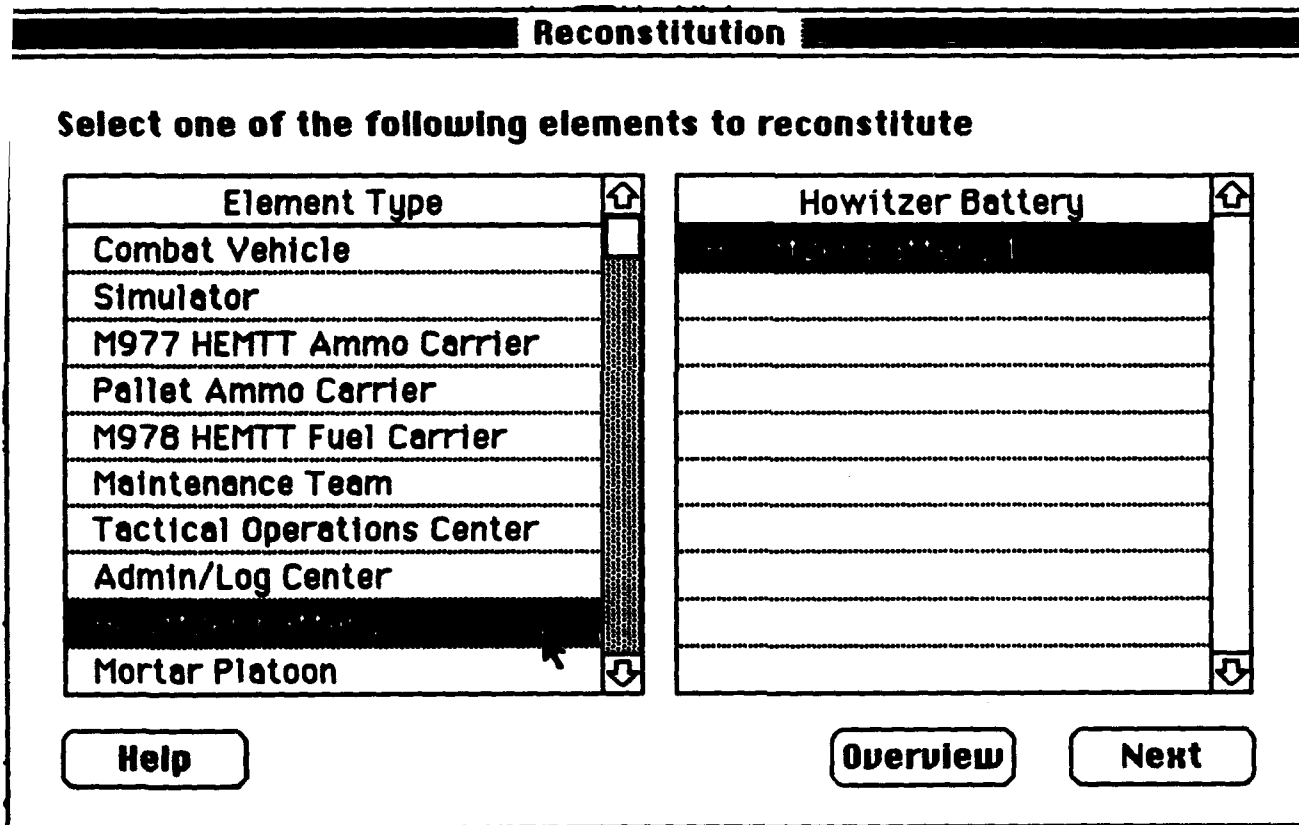
**16.2.7 Reconstitute Howitzer Battery.**

Figure 5.16.2.7. Reconstitute Howitzer Battery Selection

elect the Howitzer Battery for reconstitution, as shown in Figure 5.16.2.7:

- step 1: Click to select the Howitzer Battery from the Element Type. The right column will then display all Howitzer Battery that have been placed.



Step 2: Click to select which Howitzer Battery to be reconstituted.

Clicking on the Next button with a selected team brings up a subsequent screen, as shown in Figure 5.16.2.7.

Click on the Overview button to return to the BattleMaster Function Menu.

<b>Reconstitution</b>	
<b>Enter new parameters for the battery of eight 155mm howitzers</b>	
<b>Battery Location (Center of Mass)</b>	<input type="text" value="NB65600315"/>
<b>Azimuth of Fire (In Mills from Grid North)</b>	<input type="text" value="0"/>
<b>New Ammunition Supply at Gun Site</b>	
<b>HE Point Detonating</b>	<input type="text" value="150"/> Rds / Gun
<b>HE Variable Time</b>	<input type="text" value="200"/> Rds / Gun
<input type="button" value="Help"/> <input type="button" value="Cancel"/> <input type="button" value="Reconstitute"/>	

Figure 5.16.2.7-1. Howitzer Battery Detail

In the Howitzer Battery Detail screen, as shown in Figure 5.16.2.7-1:

- Step 1: In the Battery Location box, enter the six-digit grid coordinates including the zone designator where the Battery is to be located.
- Step 2: In the Azimuth of Fire box, enter the firing azimuth in mils.
- Step 3: In the HE Point Detonating box, enter the number of rounds.
- Step 4: In the HE Variable Time box, enter the number of rounds.

p 1: Click to select the Mortar Platoon from the Element Type. The right column will then display all Mortar Platoon that have been placed.

p 2: Click to select which Mortar Platoon to be reconstituted.

Clicking on the Next button with a selected platoon brings up a subsequent screen, as shown in Figure 5.16.2.8-1.

Click on the Overview button to return to the BattleMaster Function Menu.

<b>Reconstitution</b>	
<b>Enter new parameters for the platoon of six 107mm mortars</b>	
<b>Platoon Location (Center of Mass)</b>	<input type="text" value="N867500820"/>
<b>Azimuth of Fire (In Mills from Grid North)</b>	<input type="text" value="1800"/>
<b>New Ammunition Supply at Gun Site</b>	
<b>HE Point Detonating</b>	<input type="text" value="30"/> Rds / Gun
<b>HE Variable Time</b>	<input type="text" value="25"/> Rds / Gun
<input type="button" value="Help"/> <input type="button" value="Cancel"/> <input type="button" value="Reconstitute"/>	

Figure 5.16.2.8-1. Mortar Platoon Detail

In the Mortar Platoon Detail screen, as shown in Figure 5.16.2.8-1:

Step 1: In the Platoon Location box, enter the six-digit grid coordinates including the zone designator where the Platoon is to be located.

Step 2: In the Azimuth of Fire box, enter the firing azimuth in mils.

- 3: In the HE Point Detonating box, enter the number of rounds.
  - 4: In the HE Variable Time box, enter the number of rounds.
- Click on the Reconstitute button to activate the Mortar Platoon and to return to Figure 5.16.2.8.
- Click on the Cancel button to return to Figure 5.16.2.8.

**5.2.9 Reconstitute Combat Engineer Asset.**

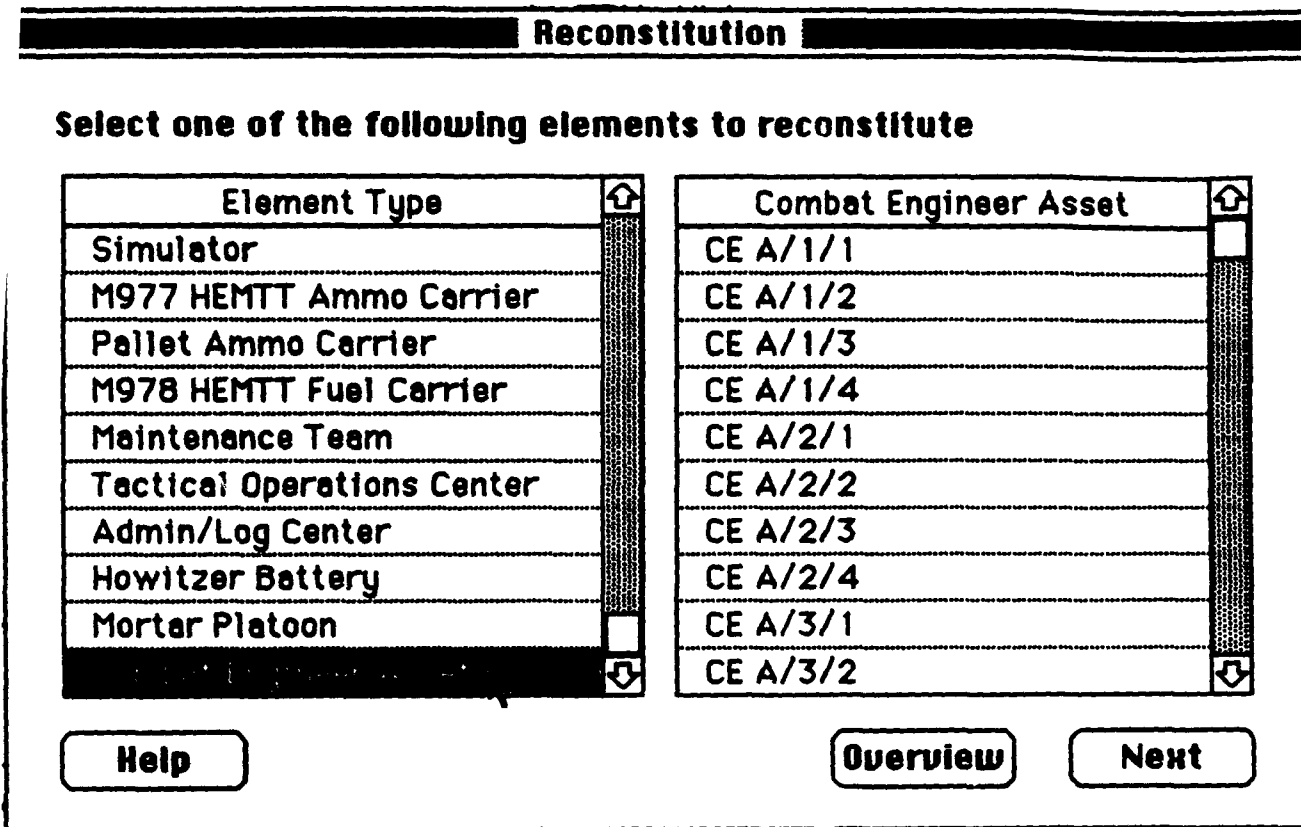


Figure 5.16.2.9. Reconstitute Combat Engineer Asset Selection

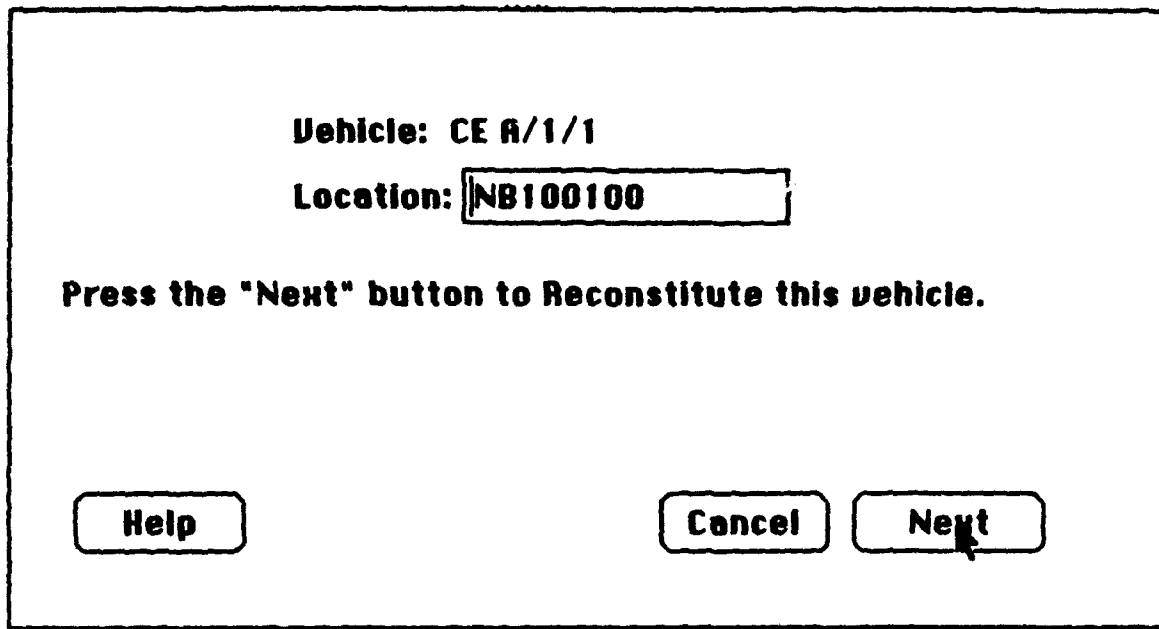
Select the Combat Engineer Asset (CEA) for reconstitution, as shown in Figure 5.16.2.9.

- Step 1: Click to select the CEA from the Element Type. The right column will then display all CEAs that have been placed.

Click to select which CEA to be reconstituted.

Clicking on the Next button with a selected CEA brings up a subsequent screen, as shown in Figure 5.16.2.9-1.

Click on the Overview button to return to the BattleMaster Function Menu.



The screenshot shows a rectangular window with a black border. Inside, the text is as follows:

Vehicle: CE A/1/1  
Location:

Press the "Next" button to Reconstitute this vehicle.

At the bottom, there are three buttons: "Help", "Cancel", and "Next". A mouse cursor is pointing at the "Next" button.

Figure 5.16.2.9-1. CEA Detail

Click on the CEA Detail screen, as shown in Figure 5.16.2.9-1:

In the Location box, enter the six-digit grid coordinates including the zone designator where the CEA is to be located.

Click on the Next button to activate the CEA and to return to Figure 5.16.2.9.

Click on the Cancel button to return to Figure 5.16.2.9.

## 5.16.3 Resume Initialization.

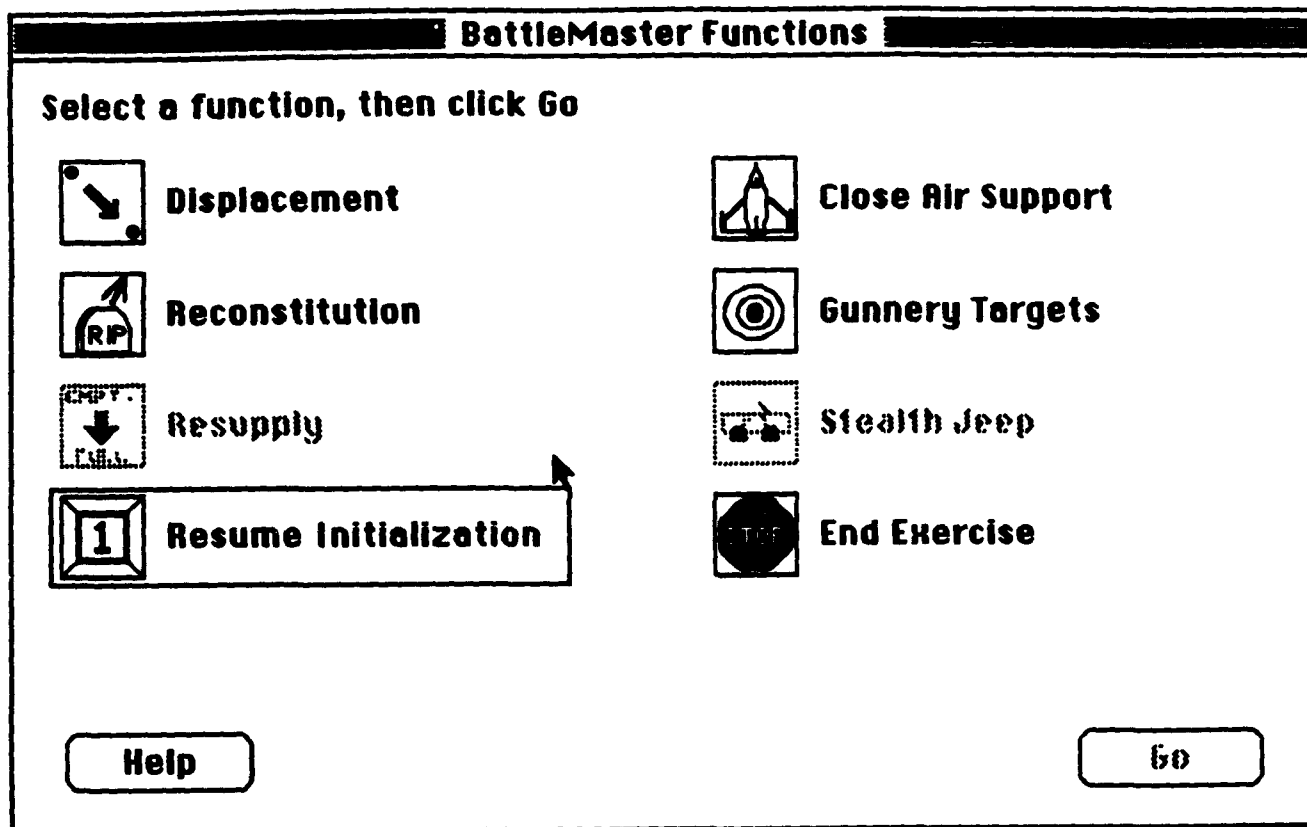


Figure 5.16.3. Resume Initialization Selection

The Resume Initialization function provides the BattleMaster with the capability to add elements that were not originally initialized to a simulation exercise. Selecting the Resume Initialization icon and clicking the GO button on the BattleMaster Function Menu, as shown in Figure 5.16.3, brings up the Initialization Menu. This function can be activated as many times as necessary during a given simulation exercise.

The only selections available at this point in an exercise are:

- Simulator Allocation.
- Vehicle Placement.
- BattleMaster Functions.

**NOTE**

When "Resume Initialization" is selected, the BattleMaster Functions Screen will revert to the Exercise Initialization Screen and the password must be reentered to display the BattleMaster Function Screen.

**5.16.4 Close Air Support.**

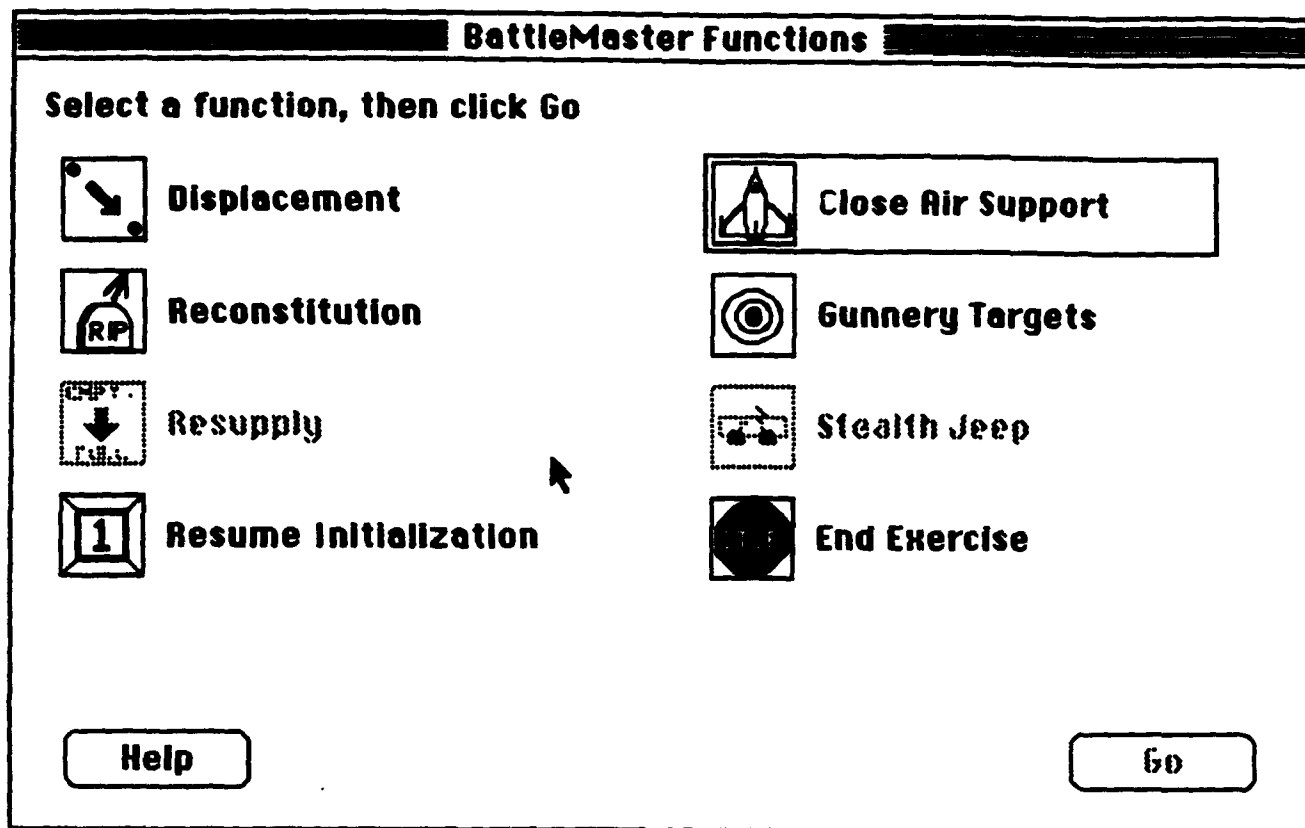


Figure 5.16.4. Close Air Support Selection

Selecting the Close Air Support (CAS) icon and clicking the GO button on the BattleMaster Functions Menu brings up the Close Air Support screen, as shown in Figure 5.16.4-1.

**NOTE**

The total number of sorties available when "Additional Sorties" are allocated may not exceed 1000.

**Close Air Support**

**The numbers of sorties allotted for the current day are:**

<b>Total number of sorties available</b>	<b>20</b>
<b>Number of sorties that may be preplanned</b>	<b>15</b>

**Enter the numbers of sorties you wish to increase these allotments by:**

<b>Additional sorties available</b>	<input type="text"/>
<b>Additional sorties that may be preplanned</b>	<input type="text"/>

↑

Figure 5.16.4-1. Close Air Support Detail

On the Close Air Support Detail screen, as shown in Figure 5.16.4-1:

- Step 1:** In the Additional Sorties Available box, enter the number of sorties to be added to the exercise.
- Step 2:** In the Additional Sorties that may be preplanned box, enter the number of sorties that may be preplanned. This amount can not exceed the number of sorties added.

Click on the **OK** button to activate the CAS and to return to Figure 5.16.4.

Click on the **Cancel** button to return to Figure 5.16.4.

## 5.16.5 Gunnery Targets.

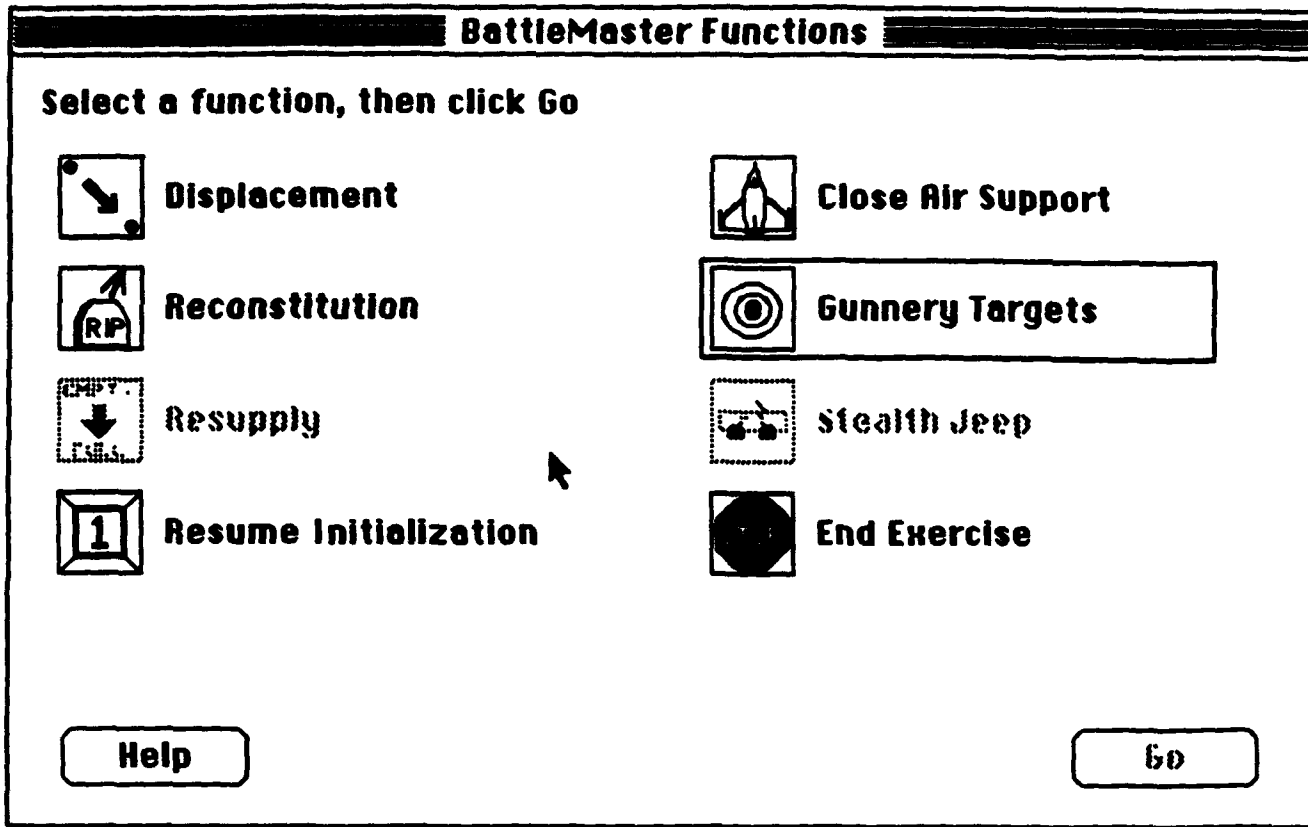


Figure 5.16.5. Gunnery Targets Selection

The BattleMaster is the authority to place unmanned stationary targets on the terrain database to support a particular training requirement. Selecting the Gunnery Targets icon and clicking the GO button on the BattleMaster Function Menu, as shown in Figure 5.16.5, brings up the Gunnery Target Worksheet (Figure 5.16.5-1).



**Gunnery Targets**

Name	Type	Appearance	Location	


Help      New Target            Reset Targets      Overview

Figure 5.16.5-1. Gunnery Targets Worksheet

The Gunnery Target Worksheet screen displays all current gunnery targets by name, assignment, appearance and location. Grayed-out targets indicate known kills.

Click on the selected target line to change or remove it.

Clicking the **Reset Targets** button reactivates all targets listed on the Gunnery target screen.

Clicking the **New target** button brings up a screen (Figure 5.16.5-2) that allows the selection and placement of a new target vehicle.

Click the **Overview** button to return to the BattleMaster Functions Menu.

Gunnery Targets	
Name	<input type="text"/>
Type	<input checked="" type="radio"/> Main Battle Tank <input type="radio"/> Armored Personnel Carrier <input type="radio"/> 2-1/2 Ton Truck <input type="radio"/> Recovery Vehicle <input type="radio"/> Mortar Carrier <input type="radio"/> SP Howitzer <input type="radio"/> Fuel Truck <input type="radio"/> Ammunition Truck
Appearance	<input type="radio"/> Defense <input type="radio"/> Offense <input type="radio"/> Observer <input checked="" type="radio"/> Target
Location	<input type="text"/>
Azimuth	<input type="text"/> Mils From Grid N
<input type="button" value="Help"/> <input type="button" value="Cancel Changes"/> <input type="button" value="Remove Target"/> <input type="button" value="OK"/>	

Figure 5.16.5-2. Gunnery Target Detail

Clicking the **New target** button or selecting a target that needs to be changed from Figure 5.16.5-1 causes the Gunnery Target Detail screen, as shown in Figure 5.16.5-2, to appear. This screen provides the basic format for generating or changing all type of targets.

- Step 1: In the Name box, enter the name, number or title of the target.
- Step 2: Click to select the target Type.
- Step 3: Click to select the target Appearance.

## NOTE

- Defense, Offense and Shared are not options if the absolute format is used. Alignment choices when in "Absolute" mode are "U.S. or Threat." See notes for Options 1 and 2, Figure 5.2, Exercise Initialization.
- See also Figure 5.8-15, Fuel Carrier Detail.

**NOTE: "Relative Mode"**

- Defense targets appear "friendly" to Blue and Defensive Forces, and as "enemy" to the Offense.
- Offensive targets appear "friendly" to Red and Offensive Forces, and as "enemy" to the defense.
- Observer targets appear "friendly" to all forces.
- Targets appear as "enemy" to all forces.

**Step 4:** In the Location box, enter the six or eight-digit grid coordinates including grid zone designator.

**Step 5:** In the Azimuth box, enter the direction that the target is to face in mils.

Click on the **OK** button to place the target.

Click on the **Cancel Changes** button to leave the target at its original location.

Click on the **Remove Target** button to delete the target that has been placed.

**NOTE**

The following commands, or "hot keys," are provided as "short cuts." They are to be used with caution.

Press **Apple+Shift+Option** keys and also press one of the following keys simultaneously:

- |          |                                    |
|----------|------------------------------------|
| <b>C</b> | to save the presets.               |
| <b>D</b> | to load the presets.               |
| <b>G</b> | to save Gunnery targets.           |
| <b>L</b> | to lock the SCC console.           |
| <b>Q</b> | to quit.                           |
| <b>T</b> | to load saved Gunnery targets.     |
| <b>V</b> | to show the console version ID.    |
| <b>X</b> | to immediately displace simulator. |

5.16.6 End Exercise.

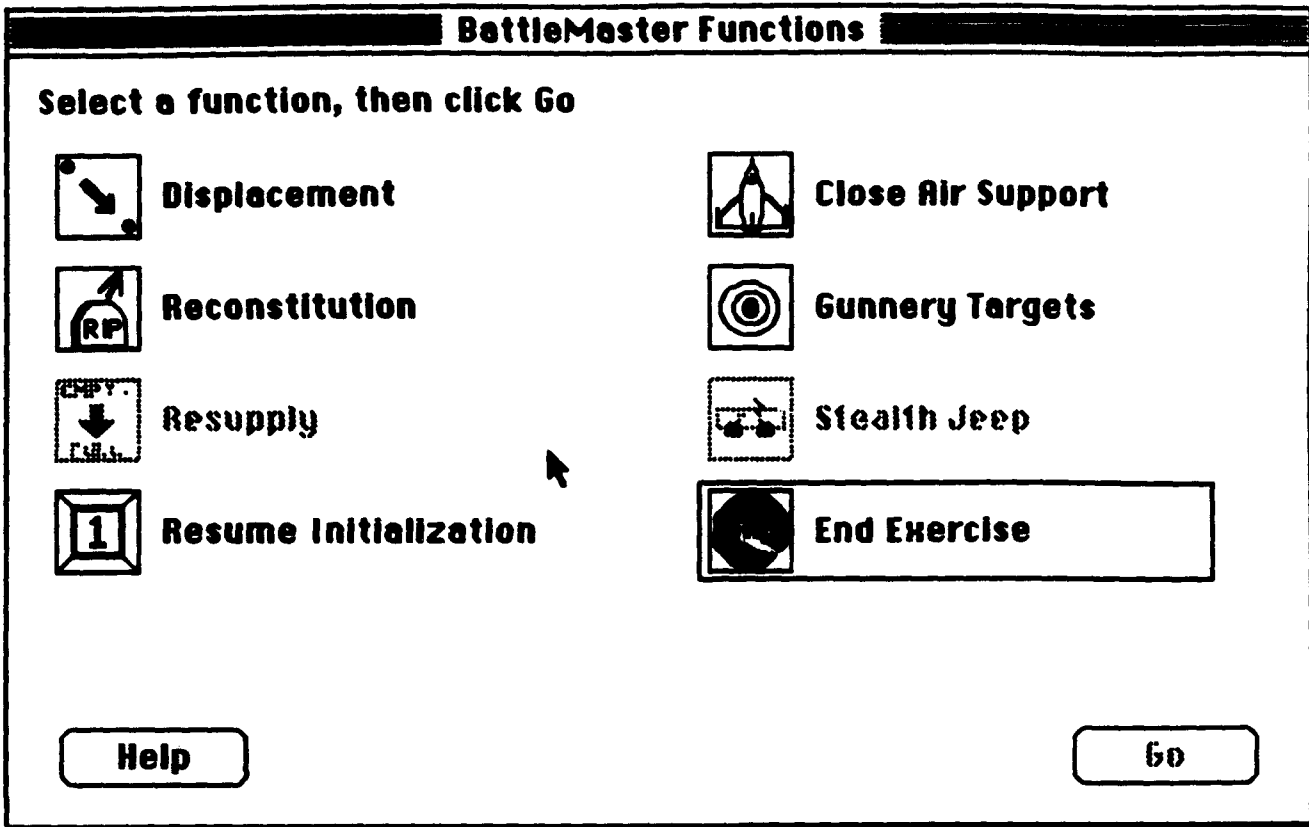


Figure 5.16.6. End Exercise Selection

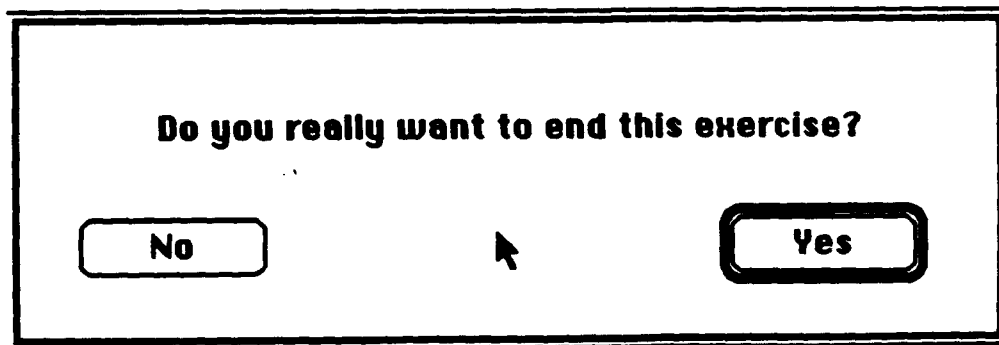


Figure 5.16.6-1. End Exercise Confirmation Dialog

Only the BattleMaster can formally end a simulation exercise. Clicking the GO button with the End Exercise icon selected on the BattleMaster Function Menu (Figure 5.16.6) brings up a confirmation dialog box, as shown in Figure 5.16.6-1, to preclude an inadvertent ending of the simulation exercise.

Click on the Yes button on the End Exercise confirmation dialog box to confirm the termination. The SCC will send shut-down messages to the Masscomp Host and all of the SIMNET Consoles, and then reboot itself.

Click on the No button to return to the BattleMaster Functions Menu.

## 6 Close Air Support Console.

This section describes the operation of the Close Air Support Console. This console must be initialized from the SIMNET Control Console with the total number of sorties allocated, and of those sorties, how many may be preplanned.

01 1509 Mar

Schedule Of Missions						
Type	TOT	Location	Description	Sorties	Results	Status
PP	01 1509 Mar	NB690104	Tanks	4		Held
PP	01 1509 Mar	NB687105	ATMs	3		Held
PP	01 1509 Mar	NB708103	APCs	1		Past
PP	01 1519 Mar	NB690104	Tanks	2		Future
PP	01 1519 Mar	NB687105	APCs	4		Future
PP	01 1519 Mar	NB708103	Bunkers	2		Future
PP	01 1519 Mar	NB700109	ATMs	1		Future
PP	01 1529 Mar	NB690104	Tanks	3		Future
PP	01 1529 Mar	NB687105	Tanks	2		Future
PP	01 1529 Mar	NB708103	Bunkers	2		Future
PP	01 1529 Mar	NB700109	APCs	2		Future
PP	01 1539 Mar	NB690104	Tanks	2		Future
PP	01 1539 Mar	NB687105	Bunkers	2		Future
PP	01 1539 Mar	NB708103	Tanks	2		Future

Help
Summary
New Mission...
Preplanned
On Call

Figure 6-1. Schedule of Missions

Figure 6-1 shows a partially completed close air support Schedule of Mission with mission's status noted as "Past," "Held," or "Future."

To change the displayed schedule of mission, click anywhere on the line containing the mission to be changed. A sub-screen containing the desired data will be available to accept the changes.

Click on the **Preplanned** button to choose the option of adding a "preplanned" mission to the Schedule of Missions table. Note that the preplanned mission has a Type marked "PP" on the Schedule of Missions table.

Click on the **On Call** button to add an On-Call mission to the Schedule of Missions table. Note that the On-Call mission has a Type marked "OC" on the Schedule of Missions table.

Click on the **Summary** button to obtain the Sorties Allocation Status, as shown in Figure 6-3.


**NOTE**

There is no Help available. Clicking the Help button causes a warning dialog to appear, as shown in Figure 6-2.

**Close Air Support Console 01 1147 Mar**

**Schedule Of Missions**

Type	TOT	Location	Description	Sorties	Results	Status
PP	01 1156 Mar	NB690104	Tanks	2		Future
PP	01 1156 Mar	NB687105	ATMs	3		Future
PP	01 1156 Mar	NB708103	APCs	1		Future
PP	01 1156 Mar	NB700109	Bunkers	2		Future
PP	01 1206 Mar	NB690104	Tanks	2		Future
PP	01 1206 Mar	NB687105	APCs	4		Future
PP	01 1206 Mar	NB700109	Bunkers	2		Future
PP	01 1206 Mar	NB690104	Tanks	2		Future
PP	01 1206 Mar	NB687105	APCs	4		Future
PP	01 1206 Mar	NB700109	Bunkers	2		Future
PP	01 1206 Mar	NB690104	Tanks	2		Future
PP	01 1206 Mar	NB687105	APCs	4		Future
PP	01 1206 Mar	NB700109	Bunkers	2		Future
PP	01 1206 Mar	NB690104	Tanks	2		Future
PP	01 1206 Mar	NB687105	APCs	4		Future
PP	01 1206 Mar	NB700109	Bunkers	2		Future



**Sorry! Help is not available**

**Roger**

**Help**
**Summary**
**New Mission...**
**Preplanned**
**On Call**

Figure 6-2. Warning Dialog

Type		Sortie Allocation - Jun 2		Status
PP	02	<b>Allotted For Use Today</b>		Future
PP	02	<b>Total Sorties</b>	100	Future
PP	02	<b>Maximum Preplanned Sorties</b>	60	Future
PP	02	<b>Currently Scheduled Or Completed</b>		Future
PP	02	<b>Total Sorties</b>	34	Future
PP	02	<b>Preplanned Sorties</b>	34	Future
PP	02	<b>On Call Sorties</b>	0	Future
PP	02	<b>Remaining</b>		Future
PP	02	<b>Total Sorties</b>	66	Future
PP	02	<b>Maximum Preplanned Sorties</b>	26	Future
PP	02			Future
PP	02			Future

Buttons: Help, OK, On Call

Figure 6-3. Sorties Allocations Summary

Figure 6-3 shows the summary of allocated and remaining sorties.

Click on the OK button to remove this screen.



.1 **Preplanned Mission.**

Schedule Of Missions	
Type	Preplanned Mission
PP	
PP	Call Sign Of Requestor <input type="text"/>
PP	
PP	Target Location Map Coordinates <input type="text"/>
PP	
PP	Run-In Heading (Degrees) <input type="text"/>
PP	
PP	Target Description <input checked="" type="radio"/> Tanks <input type="radio"/> Anti-Tank Missiles
PP	<input type="radio"/> APCs <input type="radio"/> Bunkers
PP	
PP	Number Of Sorties <input type="text"/>
PP	
PP	Time On Target <input type="text"/>
PP	
PP	
	<input type="button" value="Help"/> <input type="button" value="Undo Changes"/> <input type="button" value="Cncl Mission"/> <input type="button" value="OK"/>
	<input type="button" value="Help"/> <input type="button" value="Summary"/> <input type="button" value="New Mission..."/> <input type="button" value="Preplanned"/> <input type="button" value="On Call"/>

Figure 6.1-1. Preplanned Mission Details

Figure 6.1-1 allows the user to input the information required to request a "preplanned" airstrike.

- Step 1: In the Call Sign of Requester box, enter the requester call sign.
- Step 2: In the Target Location Map Coordinates box, enter the six-digit coordinates including the grid zone designator.
- Step 3: In the Run-In Heading box, enter the Run-in heading in degrees.
- Step 4: Click to select the Target Description.
- Step 5: In the Number of Sorties box, enter the number of sorties desired for this mission.

p 6: In the Time On Target box, enter the date and time group of the Time on Target.

**NOTE**

This time must be in the fixed format (i.e. 25 0607 DEC). The time must be at least twenty-five minutes in the future and NLT 2400 hours the same day. New sorties must be allocated at the beginning of each new day.

Click on the **OK** button to activate the airstrike.

Click on the **Cncl Mission** to cancel the mission.

Click on the **Undo Changes** button to restore the original information.

## 6.2 On-Call Mission.

Schedule Of Missions		
Type	On Call Mission	
PP		us
PP	Call Sign Of Requestor	re
PP		re
PP	Target Location Map Coordinates	re
PP		re
PP	Run-In Heading (Degrees)	re
PP		re
PP	Target Description	re
PP	<input checked="" type="radio"/> Tanks	re
PP	<input type="radio"/> Anti-Tank Missiles	re
PP	<input type="radio"/> APCs	re
PP	<input type="radio"/> Bunkers	re
PP	Number Of Sorties	re
PP		re
PP	Time On Target	re
PP		re
PP		re
PP		re
	<input type="button" value="Help"/> <input type="button" value="Undo Changes"/> <input type="button" value="Cncl Mission"/> <input type="button" value="OK"/>	
	<input type="button" value="Help"/> <input type="button" value="Summary"/> <input type="button" value="New Mission..."/> <input type="button" value="Preplanned"/> <input type="button" value="On Call"/>	

Figure 6.2-1. On-Call Mission Details

Figure 6.2-1 shows the On-Call Mission detail. The On-Call Mission screen is completed in the same manner as the Preplanned Mission, with one exception being the Time on Target must be at least twenty-five minutes later than the current time.

To complete the On-Call Mission:

Click on the OK button to add the airstrike as an option on the Schedule of Mission.

Click on the Cncl Mission to allow the sorties to be used for another mission.

Click on the Undo Changes button to restore the original information.

Close Air Support Console 01 1156 Mar

Schedule Of Missions

Type	TOT	Location	Description	Sorties	Results	Status
PP	01		<b>Aircraft On Station</b>			uture
PP			Call Sign Of Requestor		R52	ure
PP			Target Location Map Coordinates		NB690104	ure
PP			Run-In Heading (Degrees)		45	ure
PP			Target Description		Tanks	ure
PP			Number Of Sorties		2	ure
PP			Time On Target		01 1156 Mar	ure
			Help	Undo Changes	Cncl Mission	
			Hold	Clear Hot	Call	

Figure 6.2-2. Aircraft On Station Details

Figure 6.2-1, Aircraft On Station Details, automatically appears on the console when the aircraft is on station.

NOTE

This screen will remain for two minutes. If no action is taken within two minutes, the mission automatically reverts to a "Held" mission for eight (8) additional minutes. It then reverts to a "Past" mission and the allocated sorties are lost.

- Step 1: In the Call Sign of Requester box, enter the optional requester call sign.
- Step 2: In the Target Location Map Coordinates box, enter the optional six-digit coordinates including the grid zone designator.

Step 3: In the Run-In Heading box, enter the optional Run-in heading in degrees.

Click on the Hold button to hold the mission. The mission may then be held and released anytime within ten minutes of the time the aircraft came on station.

Click on the Cncl Mission button to decrease the sorties by the amount requested.

Click on the Undo Changes button to restore the original information.

Click on the Clear Hot button to run the mission. Simulators in the area will see six 500-pound bomb explosions, but will not see the aircraft.

Close Air Support Console 01 1226 Mar

**Schedule Of Missions**

Type	TOT	Location	Description	Sorties	Results	Status
PP	01		<b>Bingo Fuel</b>			est
PP	01		<b>Call Sign Of Requestor</b>		<input type="text" value="A52"/>	est
PP	01		<b>Target Location Map Coordinates</b>		<input type="text" value="NB690104"/>	est
PP	01		<b>Run-In Heading (Degrees)</b>		<input type="text" value="123"/>	held
PP	01		<b>Target Description</b>		Tanks	held
PP	01		<b>Number Of Sorties</b>		3	uture
PP	01		<b>Time On Target</b>		01 1216 Mar	

Figure 6.2-3. Bingo Fuel Details

Figure 6.2-3, Bingo Fuel Details, automatically appears on the console if the mission has been held in excess of ten minutes. This mission must be Cleared Hot, Canceled, or Diverted. The sorties will be lost whether or not the mission is cleared.

Close Air Support Console **01 1157 Mar**

**Schedule Of Missions**

Type	TOT	Location	Description	Sorties	Results	Status
PP	01		<b>Past Mission</b>			est
PP	01					est
			<b>Call Sign Of Requestor</b>		<b>B16</b>	
PP	01		<b>Target Location Map Coordinates</b>		<b>NB700109</b>	uture
PP	01		<b>Run-In Heading (Degrees)</b>		<b>45</b>	uture
PP	01		<b>Target Description</b>		<b>Bunkers</b>	uture
PP	01		<b>Number Of Sorties</b>		<b>2</b>	uture
PP	01		<b>Time On Target</b>		<b>01 1157 Mar</b>	uture
			<b>Results</b>		<input type="text"/>	

Figure 6.2-4. Past Mission Details

Click anywhere on a line containing a "Past" status mission to bring up Figure 6.2-4, Past Mission Details.

In the Result box, type in the result of the mission. This must be a Bomb Damage Assessment (BDA) reported by an observer of the airstrike. The system will not produce a BDA automatically.

## 7 Fire Support Console.

This section describes the operation of the Fire Support Console. This console allows either the Fire Support Officer or FIST to support the units training with indirect fires. The system can be initiated with one to three 155 SP batteries and the 107 mm mortar platoon. The FSO can fire from a "Target List," from that "Final Protective Fire," or a "Schedule of Fires." This console can also "Displace" the mortar platoon by sections.

This console utilizes pull-down menus across the top of the screen, as shown in Figure 7-1. To operate a pull-down menu, point the cursor on the desired operation and click the mouse button. While continuing to hold the button down, slide the cursor down until the desired selection is highlighted, then release the mouse button.

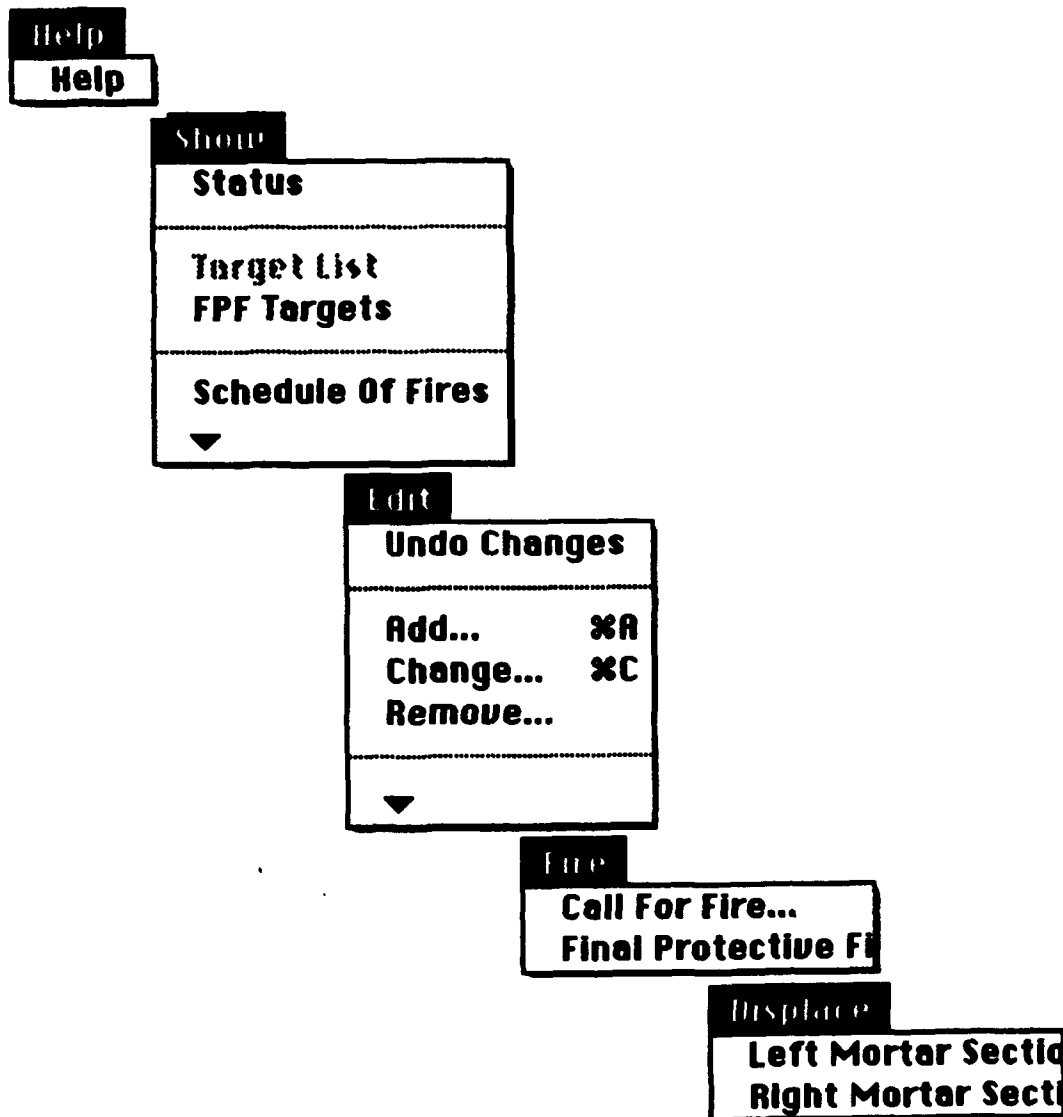





Figure 7-1. Fire Support Console Pull-Down Menus

Help Show Edit Fire Displace

26 1406 Feb

**Fire Units**

 107	 155	 155
Mortar Plt	Battery 1	Battery 2
Ready   Ready	Ready   Ready	Ready   Ready

---

**Missions**

Observer:  
Target:  
Status:

Observer:  
Target:  
Status:

Figure 7-2. Fire Support Status

Figure 7-2 shows the status of firing units and missions. To select this screen, use the "Show" pull down menu and slide the cursor down to select the "Status" option.

Click on one of the symbols to select the desired firing unit (platoon or battery).



<b>Mortar Plt</b>		<b>OK</b>	
<b>Ammunition</b>	<b>HE Point Detonating</b>	<b>450</b>	<b>Rds</b>
	<b>HE Proximity</b>	<b>450</b>	<b>Rds</b>
	<b>RAAMS Mine</b>	<b>0</b>	<b>Rds</b>
	<b>ADAM Mine</b>	<b>0</b>	<b>Rds</b>
<b>Left Sect</b>		<b>Right Sect</b>	
<b>4 Tubes Operational</b>		<b>4 Tubes Operational</b>	
<b>NB656031, 800 Mills</b>		<b>NB656031, 800 Mills</b>	
<b>Ready</b>		<b>Ready</b>	

Figure 7-3. Fire Support Mortar Platoon Status

After selecting the desired firing unit, a sub-screen of that selection will appear, as shown in Figure 7-3. This sub-screen shows the operational status of the mortars and the amount of ammunition on hand.

**NOTE**

If the unit is firing, it will continue to decrement the on-hand ammunition even while the screen is displayed.

Click on the OK button to remove this screen.

<b>Battery 1</b>		<b>OK</b>	
<b>Ammunition</b>	<b>HE Point Detonating</b>	<b>450</b>	<b>Rds</b>
	<b>HE Proximity</b>	<b>450</b>	<b>Rds</b>
	<b>RAAMS Mine</b>	<b>450</b>	<b>Rds</b>
	<b>ADAM Mine</b>	<b>450</b>	<b>Rds</b>
<b>Left Pit</b>		<b>Right Pit</b>	
<b>4 Tubes Operational</b>		<b>4 Tubes Operational</b>	
<b>NB656031, 800 Mills</b>		<b>NB656031, 800 Mills</b>	
<b>Ready</b>		<b>Ready</b>	

Figure 7-4. Fire Support Battery Status

Figure 7-4 shows the operational status of the selected artillery battery and the amount of ammunition on hand.

**NOTE**

If the unit is firing, it will continue to decrement the on-hand ammunition, even while the screen is displayed.

Click on the OK button to remove this screen.

## 7.1 Target List Operations.

Target List			
Number	Location	Description	Remarks
201	NB606128	EN AT Co (-)	Group A1B
202	NB622133	EN Tank Co (-)	Group A1B
203	NB615122	EN MRB CP	Group A1B
205	NB626104	EN Tank Co (-)	Group A2B
206	NB618099	EN Tank Co (-)	Group A2B
207	NB657142	Hill, Possible Loc EN RAG	Group A3B
208	NB668140	Possible Loc EN RAG	Group A3B
209	NB664131	Possible Loc EN RAG	Group A3B
210	NB642100	EN Tank Co (-)	Group A4B
211	NB659108	Road Junction	TRP
212	NB655095	EN Tank Co (-)	Group A4B
213	NB645092	EN Tank Co (-)	Group A4B
214	NB684088	Hill, EN Tank Co (-)	Group A5B
215	NB692095	EN Tank Co (-)	Group A5B
216	NB690104	EN Tank Co (-)	Group A6B

Figure 7.1-1. Target List

To select this screen, use the "Show" pull-down menu and slide the cursor down to select the "Target List" option (Figure 7.1-1).

To add a target to the target list, use the "Edit" pull-down menu and slide the cursor down to "Add". The Target Edit screen will appear to define the target.

To change a target on the target list, click anywhere on the line containing the target to be changed. The selected target will be highlighted. Use the "Edit" pull-down menu and slide the cursor down to "Change". The Target Edit screen will appear to allow changes to be made to the target.

To remove a target from the target list, click anywhere on the line containing the target to be removed. The selected target will be highlighted. Use the "Edit" pull-down menu and slide the cursor down to select the "Remove" option.

**Target List**

Number	Location	Description	Remarks
201	NB606128	EN AT Co (-)	Group A1B
202	NB622133	EN Tank Co (-)	Group A1B
203	<div style="border: 1px solid black; padding: 5px;"> <p><b>Target Number</b> <input type="text"/></p> <p><b>Location</b> <input type="text"/></p> <p><b>Description</b> <input type="text"/></p> <p><b>Remarks</b> <input type="text"/></p> <p><b>Remove Target</b> <span style="float: right;"><b>OK</b></span></p> </div>		
204			
205			
206			
207			
208			
209			
210			
211			
212			
213			
214	NB684088	Hill, EN Tank Co (-)	Group A5B
215	NB692095	EN Tank Co (-)	Group A5B
216	NB690104	EN Tank Co (-)	Group A6B

Figure 7.1-2. Target Edit Screen

Figure 7.1-2 allows the addition or deletion of a target.

**Step 1:** In the Target Number box, enter the Target Number.

**Step 2:** In the Location box, enter the four, six or eight-digit coordinates including the grid zone designator of the target.

**Step 3:** In the Description box, enter the optional description.

**Step 4:** In the Remarks box, enter the optional remark.

Click on the OK button to register the changes and to return to the Target List.

Click on the Remove Target button to remove the target from the Target List.

7.2 **Scheduled Fire Missions Operations.**

**Scheduled Fire Missions**

Time	Target	Description	Fire Units	Rounds	Status	

Figure 7.2-1. Scheduled Fire Missions

To select this screen (Figure 7.2-1), use the "Show" pull-down menu and slide the cursor down to select the "Schedule of Fires" option.

To add a Schedule of Fires target to the list, use the "Edit" pull-down menu and slide the cursor down to select the "Add" option.

Help Show Edit Fire Displace

08 1647 Mar

**Scheduled Fire Missions**

1	Time On Target	<input type="text"/>	
	Target Location	<input type="text"/>	(Tgt Number or Grid)
	Mortar Ammunition	<input checked="" type="radio"/> HE PD	<input type="radio"/> HE Ut
	Mortar Pit	<input type="checkbox"/> Left Sect	<input type="checkbox"/> Right Sect
	Battery Ammunition	<input checked="" type="radio"/> HE PD	<input type="radio"/> HE Ut
		<input type="radio"/> ADAM	<input type="radio"/> RAAMS
	Battery 1	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
	Battery 2	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
	Volume	<input type="text"/>	Rounds Per Tube
	<input type="button" value="Don't Schedule"/>		<input type="button" value="OK"/>

Figure 7.2-2. Scheduled Fire Mission Edit Screen

Figure 7.2-2 allows the addition or deletion of a Scheduled Fire mission.

- Step 1:** In the Time On Target box, enter the date time group of the desired time for the "Fire" Mission, using format (23 0913 DEC).
- Step 2:** In the Target Location box, enter the four, six or eight-digit coordinates including the grid zone designator.
- Step 3:** Click to select the ammunition type to be fired.
- Step 4:** Click to select the Fire Unit to fire the mission.
- Step 5:** In the Volume box, enter the number of round per tube to be fired.

Click on the OK button to enter the changes and to return to the Scheduled Fire Missions List.

Click on the Don't Schedule button to delete the Schedule of Fire mission.

**NOTE**

All data blocks must be completed on this screen. The Schedule of Fire mission will automatically fire at the designated time if the target is in range of the firing unit, and the firing unit is not otherwise committed or incapacitated.

**7.3 Final Protective Fire Targets.**

**Final Protective Fire Targets**

Number	Left Boundary	Right Boundary	Description	
				↑
				↓

Figure 7.3-1. Final Protective Fire Targets

To select this screen, use the "Show" pull-down menu and slide the cursor down to select the "FPF Targets" option.

To add a Final Protective Fire target to the list, use the "Edit" pull-down menu and slide the cursor down to select the "Add" option. The FPF Target Assignment screen, as shown in Figure 7.3-2, will appear to allow the addition or deletion of a target.

**Final Protective Fire Targets**

Number	Left Boundary	Right Boundary	Description
<b>FPF Target Assignment</b>			
<b>FPF Number</b>	<input type="text"/>		
<b>Left Boundary</b>	<input type="text"/>		
<b>Right Boundary</b>	<input type="text"/>		
<b>Description</b>	<input type="text"/>		
<b>Delete Target</b>		<b>OK</b>	

Figure 7.3-2. FPF Target Assignment

Figure 7.3-2 allows the addition or deletion of a target.

- Step 1:** In the FPF Number box, enter the FPF Number.
- Step 2:** In the Left Boundary box, enter the four, six or eight-digit coordinates including the grid zone designator of the Left Boundary.
- Step 3:** In the Right Boundary box, enter the four, six or eight-digit coordinates including the grid zone designator of the Right Boundary.



**Step 3:** In the Description box, enter the optional description.

Click on the OK button to enter the changes and to return to the FPF Target list.

Click on the Delete Target button to remove the target and to return to the FPF Target list.

#### 7.4 Firing Missions.

To fire a Call for Fire mission from the Target List, use the "Fire" pull-down menu and slide the cursor down to select the "Call for Fire" option.

<b>Observer</b>	<input type="text"/>
<b>Tgt Location</b>	<input checked="" type="radio"/> <b>Grid or Tgt Number</b> <input type="text"/> <input type="radio"/> <b>Polar Plot</b> <input type="radio"/> <b>Shift From A Known Point</b>
	<b>Observer's Location</b> <input type="text"/> <b>OT Direction</b> <input type="text"/> <b>Mils</b> <b>OT Distance</b> <input type="text"/> <b>Meters</b>
<b>OK</b>	<b>Known Point</b> <input type="text"/> <b>OT Direction</b> <input type="text"/> <b>Mils</b> <input type="radio"/> <b>Left</b> <input type="radio"/> <b>Right</b> <input type="text"/> <b>Meters</b> <input type="radio"/> <b>Add</b> <input type="radio"/> <b>Drop</b> <input type="text"/> <b>Meters</b>
<b>Cancel</b>	
<b>Tgt Description</b>	<input type="text"/>

Figure 7.4-1. Call for Fire Detail 1

Figure 7.4-1 offers three options to fire a mission from the target list or an on call mission:

- **Grid or Tgt Number.**
- **Polar Plot.**
- **Shift From A Known Point.**

**Step 1:** In the Observer box, enter the optional Observer call sign.

**Step 2: Select an option.**

**Option 1 (Grid or Tgt Number):**

Click to select the Grid or Tgt Number option.

In the Grid or Tgt Number box, enter the four, six or eight-digit grid coordinates including the grid zone designator or the target number from the target list.

**Option 2 (Polar Plot):**

Click to select the Polar Plot option.

In the Observer Location box, enter the four, six or eight-digit grid coordinates including the grid zone designator.

In the OT Direction box, enter the Observer/Target direction in mils from grid north.

In the OT Distance box, enter the Observer/Target distance in meters.

**Option 3 (Shift From A Known Point):**

Click to select the Shift From A Known Point option.

In the Known Point box, enter the four, six or eight-digit grid coordinates including the grid zone designator of the Known Point.

In the OT Direction box, enter the Observer/Target direction in mils from grid north.

Click to select the Left or Right circle. In the box, enter the number of meters to the Left or Right of the Known Point that fires must be moved.

Click to select the Add or Drop circle. In the box, enter the number of meters that fires must be moved.

**Step 3: In the Tgt Description box, enter the optional target description.**

Click on the OK button to bring up the Call for Fire Detail 2, as shown in Figure 7.4-2.

Click on the Cancel button to cancel the Call for Fire.

## NOTE

A "Known Point" is described as either a previously fired target, a registration point, or a prominent terrain feature. Fire for Effect may be entered immediately on any of these without adjustment.

Help Show Edit Fire Displace		26 1559 Feb	
Target Numb 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Observer	a1	EN AT Co (-)
	Target	201 - NB606128	
	OT Direction		Mils From Grid N
	Mortar Ammunition	<input checked="" type="radio"/> HE PD	<input type="radio"/> HE Ut
	Mortar Pit	<input type="checkbox"/> Left Sect	<input type="checkbox"/> Right Sect
	Battery Ammunition	<input type="radio"/> HE PD	<input checked="" type="radio"/> HE Ut
		<input type="radio"/> ADAM	<input type="radio"/> RAAMS
	Battery 1	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
	Battery 2	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
	Status	Ready	
		End Of Mission	Adjust Fire
		Record As Tgt	Fire For Effect
			OK

Figure 7.4-2. Call for Fire Detail 2

Figure 7.4-2 links to the Call for Fire Detail 1, as shown in Figure 7.4-1.

Step 1: In the Observer box, enter the optional Observer call sign.

Step 2: In the OT Direction box, enter the Observer/Target direction in mils from grid north.

- Step 3:** Click to select the Ammunition.
- Step 4:** Click to select the Fire Unit that will fire the mission.
- Step 5:** Click either 'Adjust Fire' or 'Fire for Effect'.

**NOTE**

A third screen will appear when either 'Adjust Fire' or 'Fire for Effect' have been selected (see Figure 7.5-2). Select the volume of fire desired and enter that number in the 'Volume Rounds Per Tube' box. When the 'Volume...' box is filled, click 'Fire' (see Figure 7-5.1). The "Firing for Effect" message will appear above the 'Check Firing' button, which appears when the 'Fire' command is given. Five (5) seconds before the first round hits the ground, "FFE" will display a "Splash" message for 5 seconds, and will then return to "FFE" until all rounds are fired. At that time, the "Ready" status will reappear.

Click on the OK button to fire the mission.

Click on the Record As Tgt button to record this mission on the Target List.

Click on the End Of Mission button to end the mission and delete the target from the target list.

**NOTE**

When either 'Adjust Fire' or 'Fire for Effect' has been selected (clicked) to begin firing the mission, both buttons disappear and are replaced by a 'Check Firing' button. Click the 'Check Firing' button to cease firing.

7.5 Adjusting Fire Missions.

Help Show Edit Fire Displace 26 1600 Feb

Target Number 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	Observer	al	EN AT Co (-)	
	Target	201 - NB606128		
	OT Direction		Mils From Grid N	
	Correction	<input type="radio"/> Left <input type="radio"/> Right <input type="radio"/> Add <input type="radio"/> Drop	<input type="text"/> <input type="text"/>	Meters Meters
	<input type="button" value="Cancel"/> <input type="button" value="Fire For Effect"/> <input checked="" type="button" value="Fire"/>			

Figure 7.5-1. Adjusting Fire

Figure 7.5-1 Adjusting Fire is activated by selecting the Adjust Fire button from Figure 7.4-2.

- Step 1: In the OT Direction box, enter the optional Observer/Target direction in mils from grid north.
- Step 2: Click to select the Left or Right circle. In the box, enter the number of meters to the Left or Right that fires must be moved.

**Step 3:** Click to select the Add or Drop circle. In the box, enter the number of meters that fires must be moved.

Click on the Fire button or on the Fire For Effect button to fire the mission.

Click on the Cancel button to cancel this mission.

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Target	Observer	EN AT Co (-)	
	a1		
	Target	201 - NB606128	
	OT Direction	Mils From Grid N	
201	OT Direction	Mils From Grid N	
202	Correction	<input type="radio"/> Left <input type="radio"/> Right	<input type="text"/> Meters
203		<input type="radio"/> Add <input type="radio"/> Drop	<input type="text"/> Meters
204	Volume	<input type="text"/>	Rounds Per Tube
205	Control	<input checked="" type="radio"/> Fire When Ready	
206		<input type="radio"/> At My Command	
207			
208			
209			
210			
211			
212			
213			
214			
215			
216			

Figure 7.5-2. Fire for Effect

Figure 7.5-2 is activated by clicking the Fire For Effect button from Figure 7.4-2.

**Step 1:** In the OT Direction box, enter the optional Observer/Target direction in mils from grid north.

- Step 2: Click to select the Left or Right circle. In the box, enter the number of meters to the Left or Right that fires must be moved.
- Step 3: Click to select the Add or Drop circle. In the box, enter the number of meters that fires must be moved.
- Step 4: In the Volume box, enter the number of rounds per tube.
- Step 5: Click to select the Control to be either Fire When Ready or fire At My Command.

Click on the Fire button to fire the mission.

Click on the Cancel button to cancel this mission.

Help Show Edit Fire Displace

26 1601 Feb

<b>Target</b> 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216	<b>Observer</b>	a1	EN AT Co (-)
	<b>Target</b>	201 - NB606128	
	<b>OT Direction</b>		Mils From Grid N
	<b>Mortar Ammunition</b>	<input checked="" type="radio"/> HE PD	<input type="radio"/> HE UT
	<b>Mortar Pit</b>	<input type="checkbox"/> Left Sect	<input type="checkbox"/> Right Sect
	<b>Battery Ammunition</b>	<input type="radio"/> HE PD	<input checked="" type="radio"/> HE UT
		<input type="radio"/> ADAM	<input type="radio"/> RRAMS
	<b>Battery 1</b>	<input type="checkbox"/> Left Pit	<input checked="" type="checkbox"/> Right Pit
	<b>Battery 2</b>	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
	<b>Status</b>	Firing For Effect, 1 Rounds	
		<b>End Of Mission</b>	<b>Check Firing</b>
		<b>Record As Tgt</b>	<b>OK</b>

Figure 7.5-3. Fire When Ready

Figure 7.5-3 appears showing the Status as "Firing for Effect" if the Fire for Effect button was selected on the Call for Fire Detail 2 screen (Figure 7.4-2), and the Fire - Fire When Ready control option was selected and executed on the Fire for Effect screen (Figure 7.5-2).

Click on the Check Firing button to stop the mission prior to completion.



Help Show Edit Fire Displace 01 0926 Mar

Fire Unit	Observer	<input type="text" value="a1"/>	EN AT Co (-)
	Target	201 - NB606128	
Mission	OT Direction	<input type="text"/>	Mils From Grid N
	Mortar Ammunition	<input checked="" type="radio"/> HE PD	<input type="radio"/> HE UT
Observer: Target: Status:	Mortar Pit	<input type="checkbox"/> Left Sect	<input type="checkbox"/> Right Sect
	Battery Ammunition	<input type="radio"/> HE PD	<input checked="" type="radio"/> HE UT
	Battery 1	<input type="radio"/> RORM	<input type="radio"/> RRAMS
		<input checked="" type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit
Battery 2	<input type="checkbox"/> Left Pit	<input type="checkbox"/> Right Pit	
Status      Awaiting Command To Commence Firing			
Observer: Target: Status:	<input type="button" value="End Of Mission"/>	<input type="button" value="Commence Firing"/>	
	<input type="button" value="Record As Tgt"/>	<input type="button" value="Cncl At My Command"/>	
	<input type="button" value="OK"/>		

Figure 7.5-4. Fire At My Command

Figure 7.5-4 appears showing the Status as "Awaiting Command To Commence Firing" if the Fire At My Command option was selected and executed.

Click on the OK button to hold the mission.

Click on the Commence Firing button to fire the mission.

Click on the Cncl At My Command button to cancel this mission.




Click on the End of Mission button to cease firing this mission and delete it as a target.

Click on the Record As Target button to add this mission to the target list.

Help Show Edit Fire Displace

01 0926 Mar

**Fire Units**

 107 Mortar PIT Ready   Ready	 155 Battery 1 a1   Ready	 155 Battery 2 Ready   Ready
--	--	--

---

**Missions**



Observer: a1
Target: 201
Status: At Command
Observer:
Target:
Status:

Figure 7.5-5. Committed Mission

Figure 7.5-5 shows a committed mission appearing as a document on the Status Screen.

Click on the mission document to fire, cancel the mission or to allow release of the committed firing units.

## 7.6 Firing Final Protective Fire.

To fire a Final Protective Fire mission from the Final Protective Fire Target List, use the "Fire" pull-down menu and slide the cursor down to select the "Final Protective Fire ..." option.

Help Show Edit Fire Displace

01 1000 Mar

**Final Protective Fire Targets**

Number	Left Boundary	Right Boundary	Description
501	NB60508822	NB60708822	

Observer

FPF Number

Fire Units    Mortar Pit     Left Sect     Right Sect

                  Battery 1     Left Pit     Right Pit

                  Battery 2     Left Pit     Right Pit

Figure 7.6-1. FPF Target Selection

To fire a FPF target:

- Step 1:    In the Observer box, enter the (optional) observer call sign.
  - Step 2:    In the FPF Number box, enter the selected FPF number from the FPF target list.
  - Step 3:    Click to select the Fire Units to fire the mission.
- Click on the Fire button to fire the mission.

Click on the **End of Mission** button to cease firing the mission.

Click on the **OK** button to remove the FPF Target selection screen.

Help Show Edit Fire Displace

04 1556 Mar

**Final Protective Fire Targets**

Number	Left Boundary	Right Boundary	Description
1	NB60508822	NB60708822	

**Observer**

**FPF Number**

**Fire Units**

Mortar Pit  **Left Sect**  **Right Sect**

Battery 1  **Left Pit**  **Right Pit**

Battery 2  **Left Pit**  **Right Pit**

**End Of Mission** **Check Fire** **OK**

Figure 7.6-2. FPF Check Fire

Click on the **Check Fire** button to suspend firing. The mission will fire until a **Check Fire** is called or until the firing unit/units run out of ammunition.




Click on the **End of Mission** button to delete the mission and subsequently release the firing units..

Click on the **OK** button to document the mission on the Status screen.

Help Show Edit Fire Displace

01 1006 Mar

**Fire Units**

		
107	155	155
Mortar PT	Battery 1	Battery 2
Ready   Ready	Ready   al	Ready   Ready

---

**Missions**




Observer: al
Target: 501 
Status: Ready
Observer:
Target:
Status:

Figure 7.6-3. FPF Status

Click on the Mission document to change/fire/or end the mission.

## 7.7 Mortar Platoon Displacement Operations.

To displace a mortar platoon, use the "Displace" pull-down menu and slide the cursor down to select either the "Left Mortar Section..." option or the "Right Mortar Section..." option.

File Edit View Special

Fire U

Missi

Observer  
Target:  
Status:

DISPLACEMENT		Left Sect	
Current	Location	NB656031	
	Azimuth of Fire	800	Mils From Grid N
Destination	Location	<input type="text"/>	
	Azimuth of Fire	<input type="text"/>	Mils From Grid N
Times	Start Point	<input type="text"/>	
	Release Point	<input type="text"/>	

Cancel OK

Observer:  
Target:  
Status:

Figure 7.7-1. Displacement Detail

- Step 1:** In the Destination Location box, enter the four, six or eight-digit coordinates including the grid zone designator for the new location for the section.
- Step 2:** In the Azimuth of Fire box, enter the azimuth of fire in mils from the grid north.
- Step 3:** In the Start Point box, enter the date and time group for the section to leave the Start Point. Note that the date and time group for the section to arrive at the Release Point will be computed automatically.

Click on the OK button to displace the section.

Click on the **Cancel** button to cancel the displacement.

**8 Administration and Logistics Console.**

This section describes the operation of the Admin/Log Console. This console operates the dispatching and loading of the M977 Ammunition HEMMTs, the M978 Fuel HEMMTs, and the Ammunition Pallets.

In this console, dots appearing on the status line of a vehicle indicate that the vehicle is disabled and may not be dispatched. HEMMT vehicles will be randomly disabled for a short period of time. At the end of the randomly assigned failure, that same vehicle will come back up on the system, available for use. This availability will be announced by the sudden appearance of a dialog, noting that the disabled vehicle is now enabled.

**CAUTION**

When the MIPS-hosted MCC has been used to initialize a vehicle, it cannot be resupplied from the Masscomp-hosted MCC or be resupplied from the MIPS-hosted MCC. In order to resupply a vehicle which has been initialized from the MIPS-hosted MCC, the vehicle must be reconstituted by the BattleMaster. Be aware that if a vehicle is reconstituted with less munitions and/or fuel than it was originally initialized with, the new values become the maximum values with which it can be reconstituted the next time. This applies to the Aviation Test Bed Facility, which is presently the only site with a MIPS-hosted MCC.



## 8.1 Fuel Truck Operation.

Fuel Truck Status					
Yeh	Assign	Load (Gallons)	Status	Location	ETA
1	A (A)	2500	Ready at	NB50015001	
2	A (A)	2500	Ready at	NB50015001	
3	B (A)	2500	Ready at	NB50015001	
4					
5	C (R)	2500	Ready at	NB50015001	
6	C (R)	2500	Disabled at	NB50015001	
7	D (R)	2500	Disabled at	NB50015001	
8	D (R)	2500	Ready at	NB50015001	
9	BN (S)	2500	Ready at	NB50015001	
10	BN (S)	2500	Ready at	NB50015001	
11	BN (S)	2500	Ready at	NB50015001	
12	BN (S)	2500	Ready at	NB50015001	

Figure 8.1-1. Fuel Truck Status

To dispatch the fuel truck:

Step 1: Click anywhere on the line containing the fuel vehicle to be dispatched. If the status is "Ready at," the selected line will be highlighted and the Dispatch button will be enabled.

Click on the Dispatch button to bring up the Dispatch Fuel Truck screen, as shown in Figure 8.1-2.

Click on the Show Ammo button to bring up the Ammunition Truck Status screen, as shown in Figure 8.1-3.

**NOTE**

There is no Help available in this console.

<b>Dispatch Fuel Truck</b>	
<b>Fuel truck 4 at NB50015001</b>	
<b>Load on Vehicle</b>	<b>2500 gallons</b>
<b>Assigned To</b>	<input type="radio"/> A Co <input checked="" type="radio"/> B Co <input type="radio"/> C Co <input type="radio"/> D Co <input type="radio"/> BN
<b>Destination</b>	<input checked="" type="radio"/> <b>Supply Point</b> <b>NB60016001</b>
	<input type="radio"/> <b>Coordinates</b> <input type="text"/>
<b>Estimated Time of Arrival</b>	
<input type="button" value="Compute ETA"/>	<input type="button" value="Dispatch"/>
	<input type="button" value="Cancel"/>

Figure 8.1-2. Dispatch Fuel Truck

The Load on Vehicle line in Figure 8.1-2 shows the amount of fuel in the vehicle.

Step 1: Click to select the Assigned To.

Step 2: Click to select either the Supply Point or the Coordinates depending upon where the vehicle is to be dispatched. If the Coordinates option was selected, enter the six or eight-digit coordinates including grid zone designator.

Click on the Compute ETA button to obtain the Estimated Time of Arrival.

Click on the Dispatch button to dispatch the vehicle and to return to the Fuel Truck Status screen showing the vehicle with an "Enroute to" Status and an ETA value, as shown in Figure 8.1-3.

Click on the Cancel button to cancel the dispatch.

Fuel Truck Status					
Yeh	Assign	Load (Gallons)	Status	Location	ETA
1	A (A)	2500	Ready at	NB50015001	
2	A (A)	2500	Ready at	NB50015001	
3	B (A)	2500	Ready at	NB50015001	
4					
5	C (R)	2500	Ready at	NB50015001	
6	C (R)	2500	Disabled at	NB50015001	
7	D (R)	2500	Disabled at	NB50015001	
8	D (R)	2500	Ready at	NB50015001	
9	BN (S)	2500	Ready at	NB50015001	
10	BN (S)	2500	Ready at	NB50015001	
11	BN (S)	2500	Ready at	NB50015001	
12	BN (S)	2500	Ready at	NB50015001	

Figure 8.1-3. Fuel Truck Status (Show Enroute Status)

Figure 8.1-3 shows the dispatched vehicle is enroute to the new destination and the ETA.

Click on the Halt button to halt the vehicle at the current location and bring up the Halt Fuel Truck dialog, as shown in Figure 8.1-4, to confirm the action.

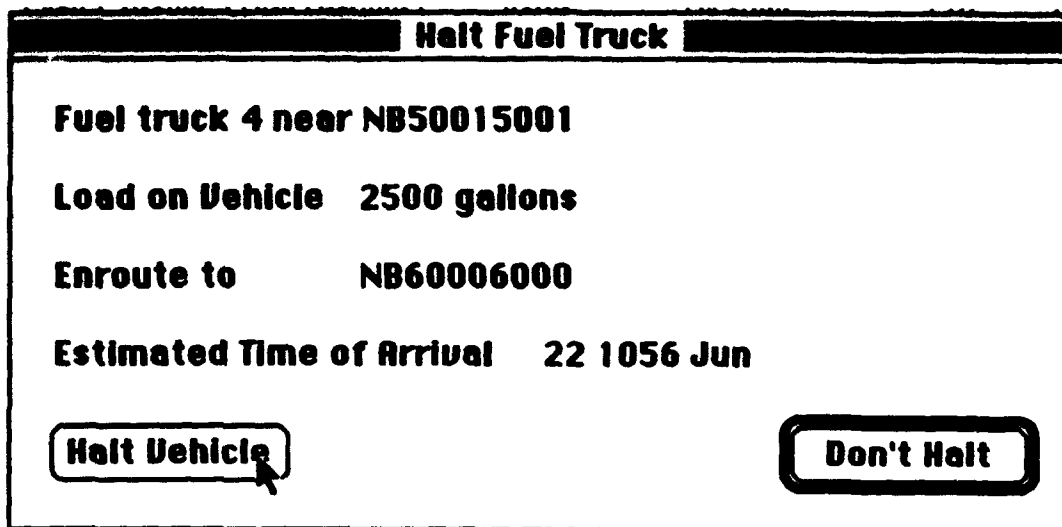


Figure 8.1-4. Halt Fuel Truck Dialog

Click on the **Halt Vehicle** button to leave the Fuel vehicle at the current location.

Click on the **Don't Halt** button to cancel the Halt command.

## 8.2 Ammunition Truck Operation.

Ammunition Truck Status					
Veh	Assign	Load	Status	Location	ETA
1	A (A)	105mm	Ready at	NB50005000	
3	B (A)	105mm	Ready at	NB50005000	
4	B (A)	105mm	Ready at	NB50005000	
5	C (R)	105mm	Disabled at	NB50005000	
6	C (R)	105mm	Ready at	NB50005000	
7	D (R)	25mm, missiles	Ready at	NB50005000	
8	D (R)	25mm, missiles	Ready at	NB50005000	
9	BN (S)	25mm, 105mm	Ready at	NB50005000	
10	BN (S)	25mm, 105mm, missiles	Ready at	NB50005000	

Display Load By  Weight and Volume  Ammo Type

Figure 8.2-1. Ammunition Truck Status

Figure 8.2-1 displays the 10 Ammunition HEMMTs, with their load identified by Weight and Volume.

Click to select the load by Ammo Type screen as shown in Figure 8.2-2.

Step 1: Click anywhere on the line containing the vehicle to be dispatched. If the status is "Ready at," the selected line will be highlighted and the Dispatch button will be enabled.

Click on the Dispatch button to bring up the Dispatch Ammunition Truck screen, as shown in Figure 8.1-2.

Click on the Show Pallets button to bring up the Pallets Status screen, as shown in Figure 8.3-1.

**NOTE**

There is no Help available in this console.

Dispatch Ammunition Truck

**Ammo truck 3 at NB50005000**

Veh	Load on Vehicle	Ammo Type	Quantity	lbs.	cu. ft.	
2		105 mm HEAT	160	10958	360	
		105 mm APDS	122	8355	274	
4		20 mm HEI	15	1089	19	
5		20 mm PIE	15	1089	19	

**Assigned To**     A Co     B Co     C Co     D Co     BN

**Destination**     Supply Point    NB60006000

Coordinates   

**Estimated Time of Arrival**

Compute ETA

Dispatch

Cancel

Figure 8.2-2. Dispatch Ammunition Truck

The Load on Vehicle line in Figure 8.2-2 shows the current load of the vehicle.

Step 1: Click to select the Assigned To.

Step 2: Click to select either the Supply Point or the Coordinates, depending upon where the vehicle is to be dispatched. If the Coordinates option was selected, enter the six or eight digit coordinates including grid zone designator.

Click on the Compute ETA button to obtain the Estimated Time of Arrival.

Click on the **Dispatch** button to dispatch the vehicle and to return to the **Ammunition Truck Status** screen showing the vehicle with an "Enroute to" Status and an ETA value as shown in Figure 8.2-3.

Click on the **Cancel** button to cancel the dispatch.

Ammunition Truck Status						
Veh	Assign	Load		Status	Location	ETA
1	A (A)	21368 lbs.	702 cu. ft.	Disabled at	NB50005000	
2	A (A)	21368 lbs.	702 cu. ft.	Ready at	NB50005000	
4	B (A)	21368 lbs.	702 cu. ft.	Ready at	NB50005000	
5	C (R)	21368 lbs.	702 cu. ft.	Ready at	NB50005000	
6	C (R)	21368 lbs.	702 cu. ft.	Ready at	NB50005000	
7	D (R)	6251 lbs.	696 cu. ft.	Ready at	NB50005000	
8	D (R)	6251 lbs.	696 cu. ft.	Ready at	NB50005000	
9	BN (S)	17059 lbs.	624 cu. ft.	Ready at	NB50005000	
10	BN (S)	4509 lbs.	575 cu. ft.	Ready at	NB50005000	

Display Load By  Weight and Volume  Ammo Type

Figure 8.2-3. Ammunition Truck Status (Showing Enroute Status)

Figure 8.2-3 shows the dispatched vehicle is enroute to the new destination and its ETA.

Click on the **Halt** button to halt the vehicle at the current location and bring up the **Halt Ammunition Truck** dialog, as shown in Figure 8.2-3, to confirm the action.

**Ammunition Truck Status**

**Halt Ammunition Truck**

**Ammo truck 3 near NB49884988**

**Load on Vehicle**

Ammo Type	Quantity	lbs.	cu. ft.	
105 mm HEAT	160	10958	360	
105 mm APDS	122	8355	274	
20 mm HEI	15	1089	19	
20 mm PIE	15	1089	19	

**Enroute to NB40004000**

**Estimated Time of Arrival 02 1417 Jun**

**Halt Vehicle** **Don't Halt**

ets

Figure 8.2-4. Halt Ammunition Truck Dialog

Click on the **Halt Vehicle** button to leave the Fuel vehicle at the current location.

Click on the **Don't Halt** button to cancel the Halt command.



## 8.3 Ammunition Pallet Operation.

Pallet Status					
Veh	Assign	Load		Status	Location
1	A (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
2	A (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
4	B (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
5	C (R)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
6	C (R)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
7	D (R)	33 lbs.	29 cu. ft.	Unhitched at	NB50025002
8	D (R)	33 lbs.	29 cu. ft.	Disabled at	NB50025002
9	BN (S)	50 lbs.	20 cu. ft.	Unhitched at	NB50025002
10	BN (S)	33 lbs.	26 cu. ft.	Unhitched at	NB50025002

Display Load By  Weight and Volume  Ammo Type

Figure 8.3-1. Pallet Status

Ammunition is delivered on pallets that are carried on trailers hitched to ammunition trucks. To deliver ammunition, first hitch a pallet to an ammunition truck, and then dispatch that ammunition truck to the intended location. Figure 8.3-1 displays the 10 pallets, with their load identified by Weight and Volume.

Click to select the load by Ammo Type screen.

**Step 1:** Click anywhere on the line containing the pallet to be hitched to an ammunition truck. If the status is "Unhitched At," the selected line will be highlighted and the Hitch button will be enabled.

Click on the Hitch button to bring up the Hitch Pallet screen, as shown in Figure 8.3-2.

Click on the Show Fuel button to bring up the Fuel Truck Status screen, as shown in Figure 8.1-1.

**NOTE**

There is no Help available in this console.

**Hitch Pallet**

**Pallet truck 3 at NB50025002**

**Load on Vehicle**

Ammo Type	Quantity	lbs.	cu. ft.	
AT Conv mine	1	25	2	↑
AT Scat mine	1	4	3	
				↓

**Assigned To**       A Co    B Co    C Co    D Co    BN

**Hitch to:**

Figure 8.3-2. Hitch Pallet

The Load on Vehicle line in Figure 8.3-2 shows the current load of the pallet.

Step 1:      Click to select the Assigned To.

Step 2:      In the Hitch to box, enter the one-digit number of the ammunition truck.

Click on the Hitch button to dispatch the vehicle and to return to the Pallet Status screen showing the vehicle with a "Hitched to" Status as shown in Figure 8.3-3.

Click on the Cancel button to cancel the dispatch.

### NOTE

An ammunition pallet must be within 200 meters of the ammunition truck to which it is to be hitched. If the distance is greater than 200 meters, a warning dialog will appear.

Pallet Status					
Veh	Assign	Load		Status	Location
2	A (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
3	B (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
4	B (A)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
5	C (R)	29 lbs.	5 cu. ft.	Disabled at	NB50025002
6	C (R)	29 lbs.	5 cu. ft.	Unhitched at	NB50025002
7	D (R)	33 lbs.	29 cu. ft.	Unhitched at	NB50025002
8	D (R)	33 lbs.	29 cu. ft.	Unhitched at	NB50025002
9	BN (S)	50 lbs.	20 cu. ft.	Unhitched at	NB50025002
10	BN (S)	33 lbs.	26 cu. ft.	Unhitched at	NB50025002

Display Load By  Weight and Volume  Ammo Type

Figure 8.3-3. Pallet Status (Showing Hitched Status)

Figure 8.2-4 shows the selected pallet hitched to an ammunition truck.

Click on the Unhitch button to unhitch the selected pallet from the ammunition truck. If the ammunition truck is not moving at that time, the Unhitch Pallet dialog screen, as shown in Figure 8.3-4, will appear to confirm the action. A warning dialog will appear if the ammunition truck is moving.

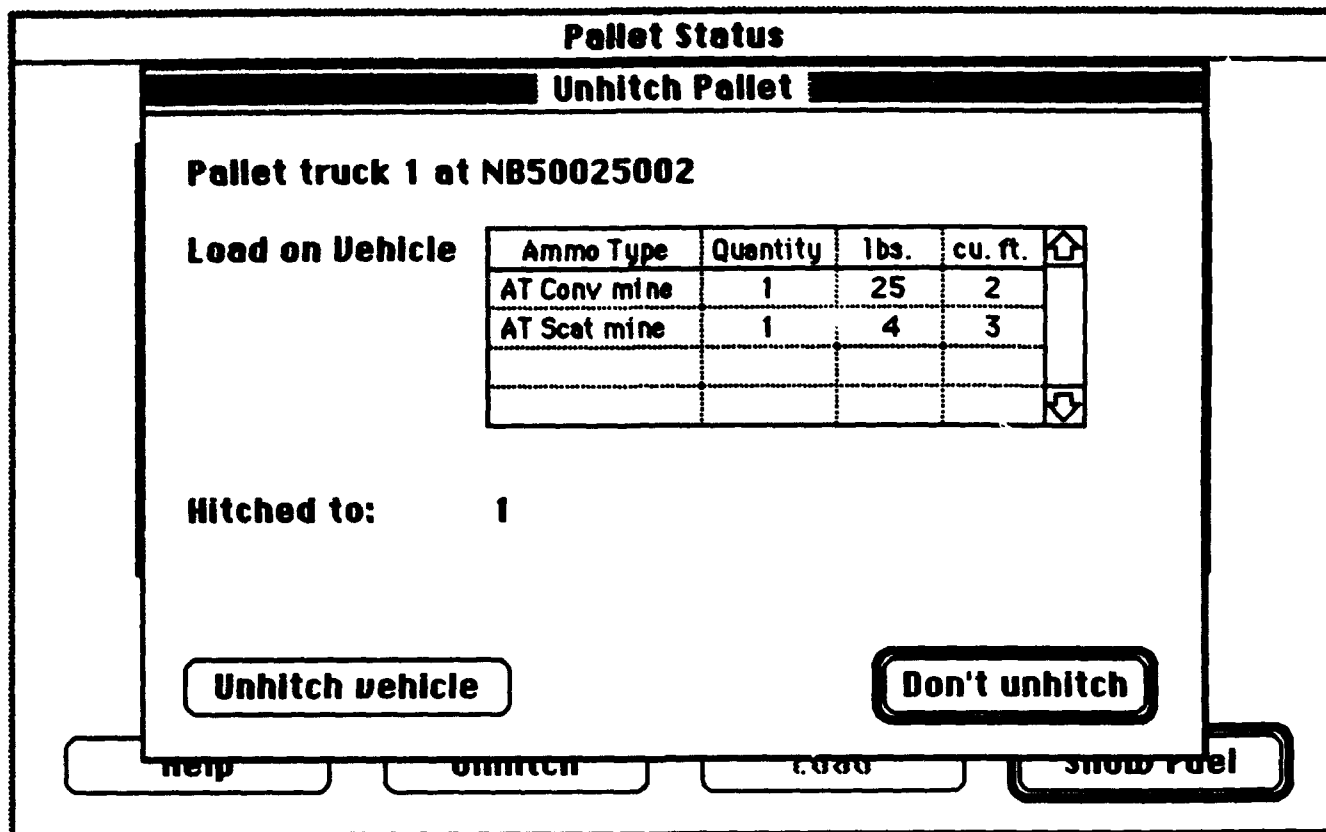


Figure 8.3-4. Unhitch Pallet Dialog

Click on the **Unhitch vehicle** button to unhitch the pallet at the current location and to return to the Pallet Status screen, which shows the pallet "Unhitched at" status.

Click on the **Don't unhitch** button to cancel the Unhitch command.

## 9 Combat Engineer Console.

The first Combat Engineer Console screen appears to allow the user to define new mission or monitor ongoing missions with the use of messages and requests for information. Before a mission can be completed, several steps must be taken by the user to guide the system through the movement of assets, the emplacement of mines, or the breaching of minefields.

In all missions, the user is allowed to select between a Warn mission status and an Execute mission status. For the Warn mission, the first 15 minutes of planning are performed immediately. During this period, the mission status screen will show Planning in the status column. Following the first 15 minutes of planning, the mission status screen shows Warned until 15 minutes before the scheduled move-out time. At that time (15 minutes before move-out), a dialog box will appear asking if the mission should be executed, changed, or canceled.

Combat Engineer Missions							
Mission	Type	Location	Move Out	Mission Complete	Status		
1	Movement	NB00050005	03 1030	03 1030	Moved		↑
2	Place	NB00010001	03 1031	03 1031	Planning		
3	Emplace	NB123456	03 1035	07 1446	Cancelled		
4	Movement	NB01230123	03 1040	03 1044	Preparing		
5	Movement	NB22223333	03 1059	03 1235	Warned		
							↓

⤴

New mission

Asset status

Figure 9-1. CEC Mission Status

Figure 9-1 shows the CEC Mission Status.

Click on the **New mission** button to select the type of mission and to define a new mission.

Click on the **Asset status** button to bring up the **Assets' Status** screen, as shown in Figure 9-4-1.

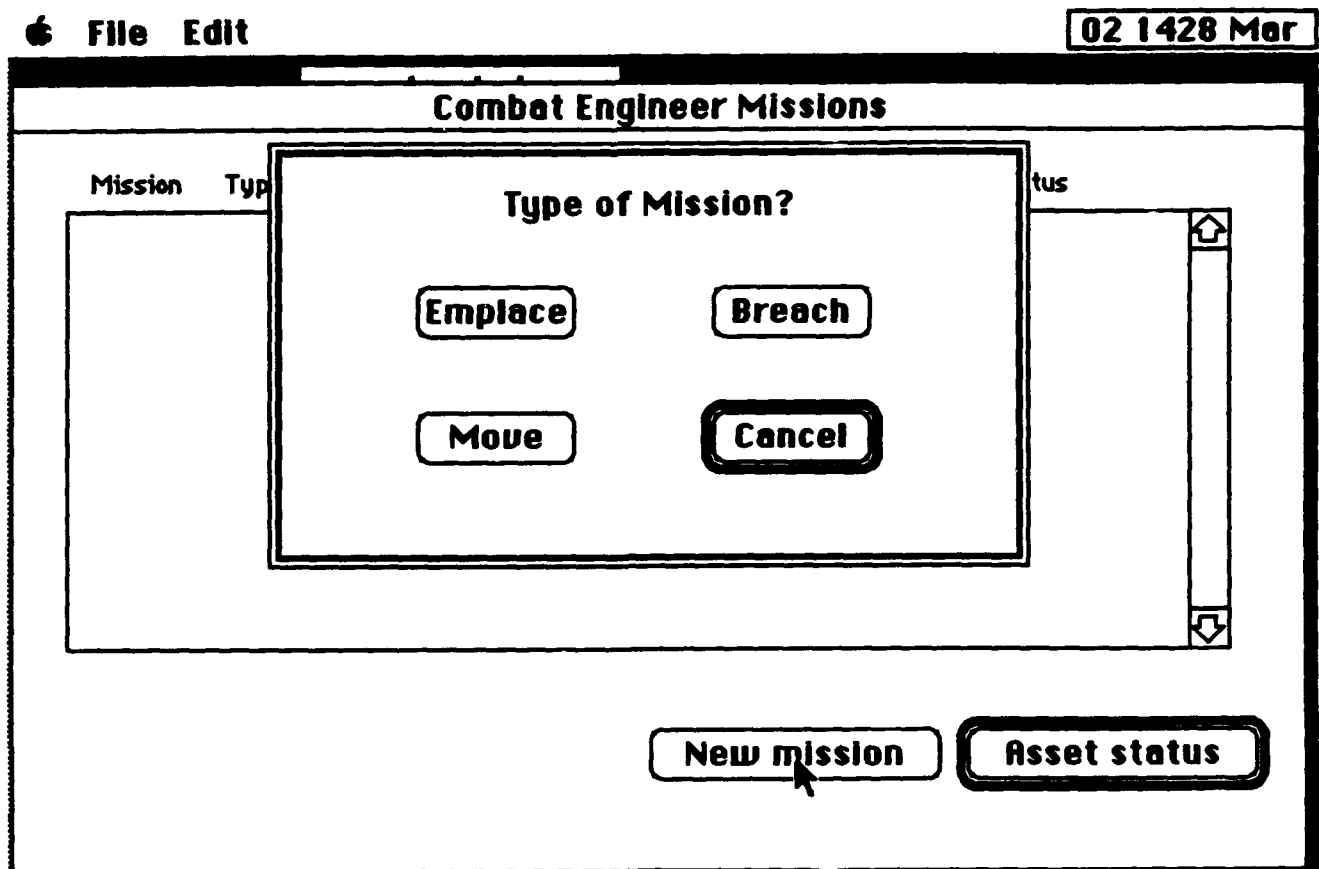


Figure 9-2. Type of Mission Selection

By clicking the **New mission** button, the **Type of Mission** selection sub-screen will appear as shown in Figure 9-2. This sub-screen allows the user to choose the operation needed next.

Click on the **Move** button to move engineering resources.

Click on the **Emplace** button to start the emplacing a minefield process.

Click on the **Breach** button to start breaching a minefield process.

Click on the **Cancel** button to return to Figure 9-1.

## 9.1 Moving Engineering Resources.

Click on the Move button on the Type of Mission screen, as shown in Figure 9-2, to begin Moving Engineering Resources. The Movement Missions Details screen, as shown in Figure 9.1-1, will appear.

File Edit 02 1429 Mar

**Movement Mission Details**

Mission: 1     Warn     Execute

To location:

Assets:

<input type="checkbox"/>	CE A/1/1
<input type="checkbox"/>	CE A/1/2
<input type="checkbox"/>	CE A/1/3
<input type="checkbox"/>	CE A/1/4
<input type="checkbox"/>	M128/1
<input type="checkbox"/>	M128/2
<input type="checkbox"/>	M-57/1
<input type="checkbox"/>	M-57/2

Move Out: 02 1459 Mar

Arrive NLT: 02 1459 Mar

No changes    Cancel mission    **OK**

Figure 9.1-1. Movement Mission Details

Figure 9.1-1 shows the movement mission details and allows the user to review or change mission information.

Step 1: Click to select the Warn or Execute mission.

Step 2: In the Location box, enter the six or eight-digit coordinates including the grid zone to which the selected assets are to be moved.

Step 3: Click to select the assets to be moved.

**Step 4:** In the Move Out box, enter the optional time for the assets to move out. The time is automatically calculated by the system. The Arrive NLT time will be calculated based on the Move Out time entered.

**Step 5:** In the Arrive NLT box, enter the required Arrive NLT time if the Move Out time was not changed. Otherwise, the Arrive NLT time is optional. The Move Out time will be calculated automatically based on the Arrive NLT time entered.

Click on the **OK** button to store the information and to remove this screen.

Click on the **Cancel mission** button to cancel the mission and to return to Figure 9-1.

Click on the **No changes** button to restore the original displayed information.



## 9.2 Emplacing Minefields.

This section describes the sequence of operation for emplacing mines. The minefields can be emplaced by hand or mechanically by:

- Establishing a minefield's location and boundaries.
- Specifying the density of the minefields.
- Assigning resources.
- Coordinating the movement of resources to the minefield location.
- Laying mines.

In the case of the artillery-delivered scatterable minefields, the Fire Support Console operator will execute the fire mission on request provided the requested number and type of rounds.

The M128 GEMSSs or the M57s, and the Combat Engineer platoon that uses them, can be assigned to lay a minefield if the resources are still available.

Click on the **Emplace** button on the Type of Mission screen, as shown in Figure 9-2, to begin the emplacement sequence. The Emplacement Missions Details screen, as shown in Figure 9.2-1, will appear.

File Edit 02 1429 Mar

**Emplacement Mission Details**

Mission: 1       Warn       Execute

Shape:             Area       Linear of depth 0 m.

From location: [ ]

To: [ ]

To: [ ]

To: [ ]

To: [ ]

Emplacement party location: [ ]

Density: 0.005,0.005

Mines: 0	AT
0	APF
0	APB

Assets:

<input type="checkbox"/> CE A/1/1
<input type="checkbox"/> CE A/1/2
<input type="checkbox"/> CE A/1/3
<input type="checkbox"/> CE A/1/4
<input type="checkbox"/> M128/1
<input type="checkbox"/> M128/2
<input type="checkbox"/> M-57/1
<input type="checkbox"/> M-57/2

Move Out: 02 1458 Mar

Start emplacing: 02 1458 Mar

Emplace NLT: 02 1458 Mar

Cleared lane    No changes    Cancel mission    **OK**

Figure 9.2-1. Emplacement Missions Details

- Step 1: Click to select the Warn or Execute Mission.
- Step 2: Click to select the Shape of the mine field. If the Linear of depth option was selected, enter the depth of the minefield in meters.
- Step 3: In the From Location box, enter the six or eight-digit coordinates that the assets will start from.
- Step 4: In the To boxes, enter the six or eight digit coordinates that define the perimeter for the area minefield (at least 3 grid coordinates must be provided) or the centerline for the linear minefield (at least 2 grid coordinates must be provided).
- Step 5: In the Emplacement party Location box, enter the six or eight digit coordinates where the supply of mines to be sent.

- Step 6:** In the **Density** box, enter the minefield density. A density of 0 indicates a phony minefield.
- Step 7:** In the **Mines** boxes, enter the number for each type of mines.
- Step 8:** Click to select the assets to be used.
- Step 9:** In the **Move Out** box, enter the optional time for the assets to move out. The time is automatically calculated by the system. The **Start Emplacing** time and the **Emplace NLT** time will be calculated based on the **Move Out** time entered.
- Step 10:** In the **Start Emplacing** box, enter the optional **Start Emplacing** time. The **Emplace NLT** time and the **Move Out** time will be calculated automatically based on the **Start Emplacing** time entered.
- Step 11:** In the **Emplace NLT** box, enter the optional **Emplace NLT** time. The **Start Emplacing** time and the **Move Out** time will be calculated automatically based on the **Emplace NLT** time entered.

Click on the **Clear Lane** button to place a clear lane through the minefield. A sub-screen will appear to specify the clear lane detail.

Click on the **OK** button to store the information and to return to the **Mission Status** screen.

Click on the **Cancel mission** button to cancel the mission and to return to Figure 9-1.

Click on the **No changes** button to cancel the changes.

File Edit

02 1429 Mar

**Emplace Mission Details**

**Mission: 1**

**Minefield location:**

**Emplacement party location:**

**Cleared lane:**

**From:**

**To:**

**To:**

**To:**

**To:**

**Width:**  m.

**OK**

Figure 9.2-2. Clear Lane Details

Figure 9.2-2 shows the Minefield Location and the Emplacement Party Location as a reminder.

**Step 1:** In the From and To boxes, enter the four, six or eight-digit coordinates including the grid zone designator to define the Clear Lane. Up to five coordinates are allowed.

**Step 2:** In the Width box, enter the width of the Cleared Lane in meters.

Click on the OK button to define Clear Lane and to return to Figure 9.2-1.

### 9.3 Breaching Minefields.

This section describes the sequence of operation for breaching minefields. The minefields can be breached by assigning resources, coordinating the movement of resources to the minefield location, and then clearing lanes.

The M58A1, and the Combat Engineer platoon that uses it, can be assigned to breach a minefield if the resources are still available.

Click on the Breach button on the Type of Mission screen, as shown in Figure 9-2, to begin the breaching sequence. The Breaching Missions Details screen, as shown in Figure 9.3-1, will appear.

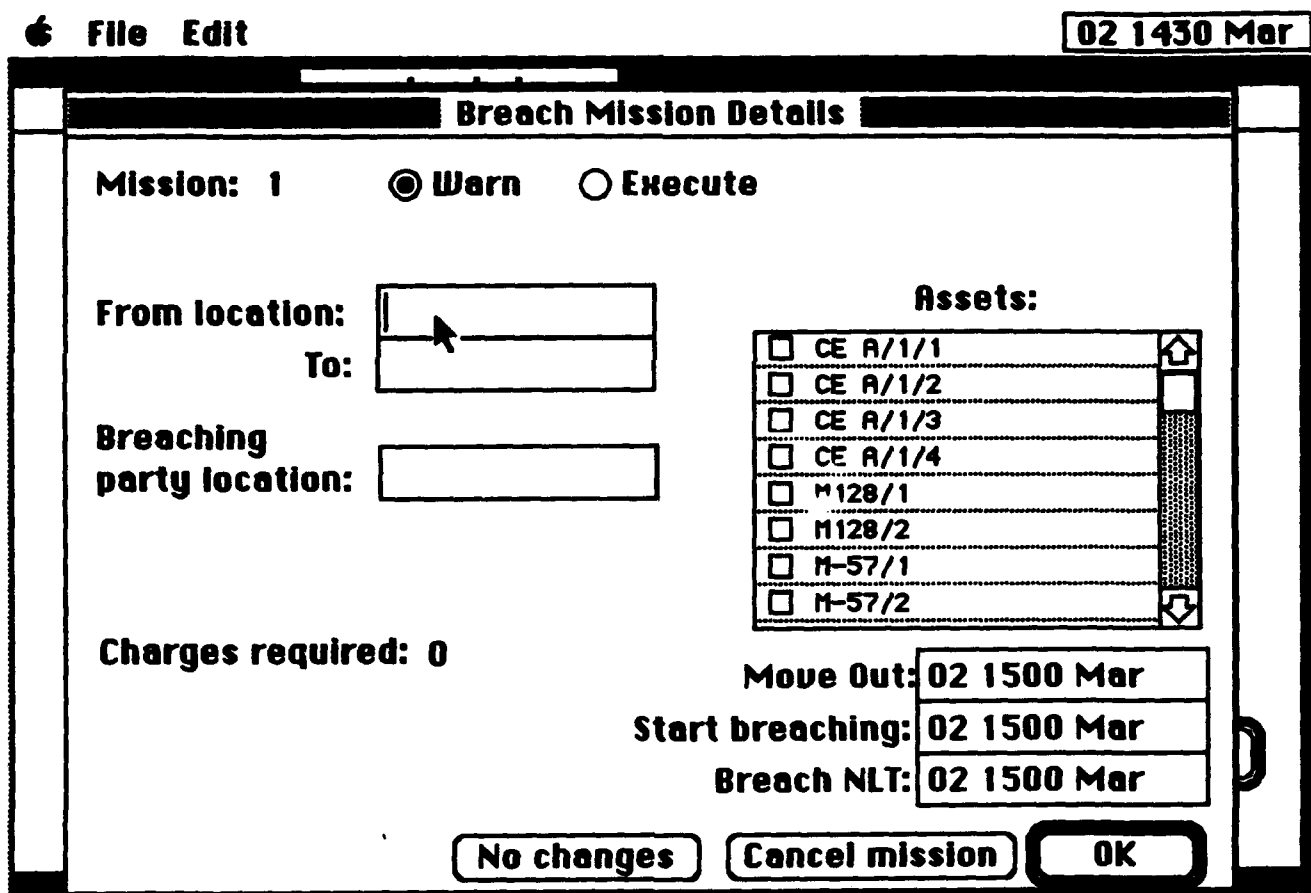


Figure 9.3-1. Breaching Mission Details

Step 1: Click to select the Warn or Execute Mission.

- Step 2:** In the From Location box, enter the six or eight-digit coordinates that the assets will start from.
- Step 3:** In the To box, enter the six or eight digit coordinates.
- Step 5:** In the Breaching party location box, enter the six or eight digit coordinates where the line changes to be sent.
- Step 6:** Click to select the assets to be used.
- Step 7:** In the Move Out box, enter the optional time for the assets to move out. The time is automatically calculated by the system. The Start Breaching time and the Breach NLT time will be calculated based on the Move Out time entered.
- Step 8:** In the Start Breaching box, enter the optional Start Breaching time. The Breach NLT time and the Move Out time will be calculated automatically based on the Start Breaching time entered.
- Step 9:** In the Breach NLT box, enter the optional Breach NLT time. The Start Breaching time and the Move Out time will be calculated automatically based on the Breach NLT time entered.

**NOTE**

The M58A1 carries only one line charge at a time. For breached lanes that require more than one line charge, the time to breach the minefield includes the time(s) required for the M58A1 to be towed back to the Ammunition Transfer Point and then towed out to the minefield.

Click on the **OK** button to store the information and to return to the **Mission Status** screen.

Click on the **Cancel mission** button to cancel the mission and to return to Figure 9-1.

Click on the **No changes** button to cancel the changes.

## 9.4 Monitoring Assets.

This section describes the sequence of operation for monitoring the ongoing mission. To monitor the mission, click on the **Asset status** button on the Mission Status screen, as shown in Figure 9-1. The Assets Status screen (Figure 9.4-1) will appear, showing the current status and location of all Combat Engineer assets that have been initialized.

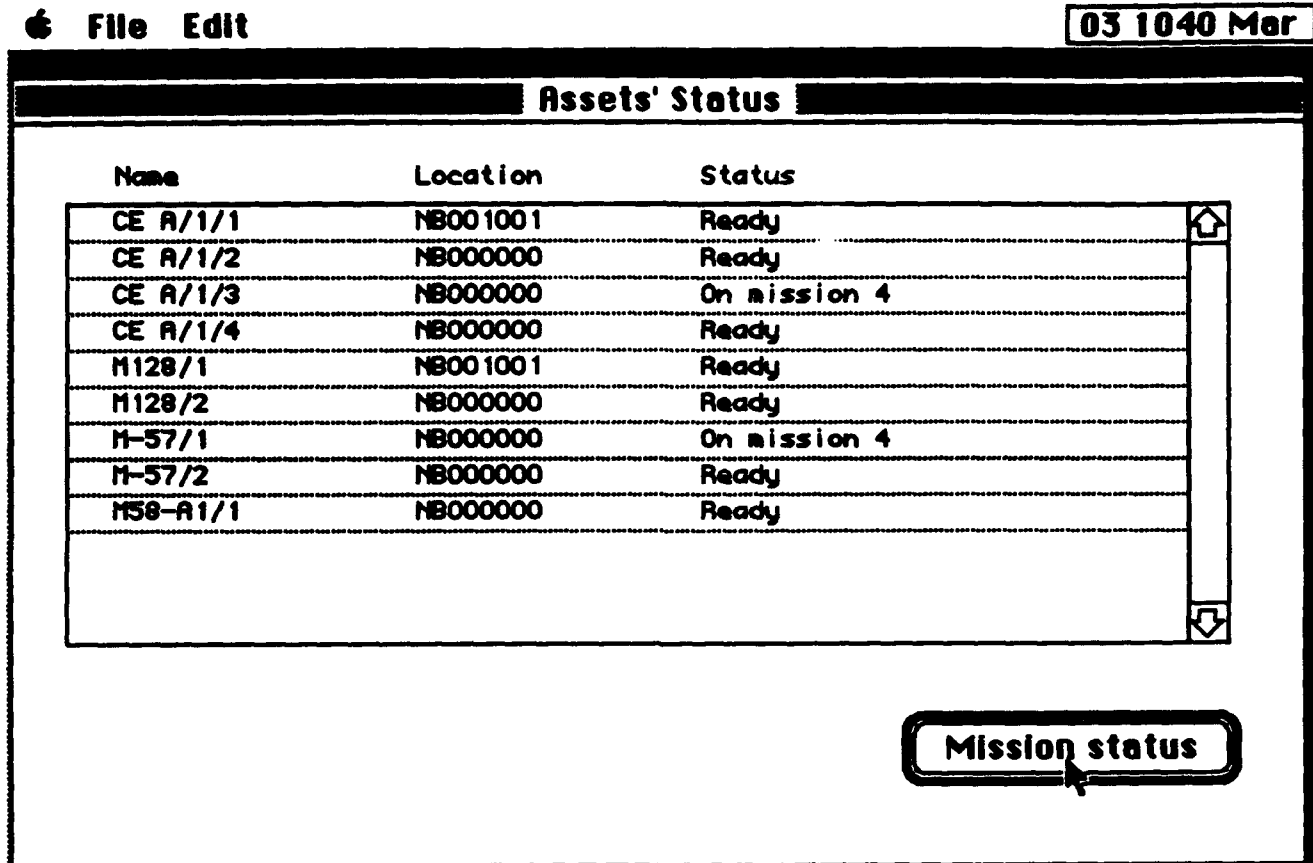


Figure 9.4-1. Assets Status

## 9.5 Monitoring Missions.

Before a mission is completed, several messages will appear in the status column of the Combat Engineer Mission screen, as shown in Figure 9.5-1. Some of these messages appear automatically, informing the user of the mission status, and some appear following the user's input, requesting further information.

Combat Engineer Missions						
Mission	Type	Location	Move Out	Mission Complete	Status	
1	Movement	NB00050005	03 1030	03 1030	Moved	↑
3	Eplace	NB123456	03 1035	07 1446	Cancelled	
4	Movement	NB01230123	03 1040	03 1044	Preparing	
5	Movement	NB22223333	03 1059	03 1235	Warned	

↓

Figure 9.5-1. Mission Status

To make changes to a mission, click anywhere on the line containing the selected mission to bring up the Movement Mission Details screen, as shown in Figure 9.1-1, from which changes can be made. Note that once the 15-minute preparation time before Move Out has started, the mission can be canceled but cannot be changed.

If the Warn mission was selected during the mission definition, during the first 15 minutes, the mission status will show "Planning" in the Status column. Following this 15-minute period, the Status will be changed to "Warned" until 15 minutes before the scheduled Move Out time. At that time, a dialog box, as shown in Figure 9.5-2, will appear requesting the user's decision to execute, change, or cancel the mission.



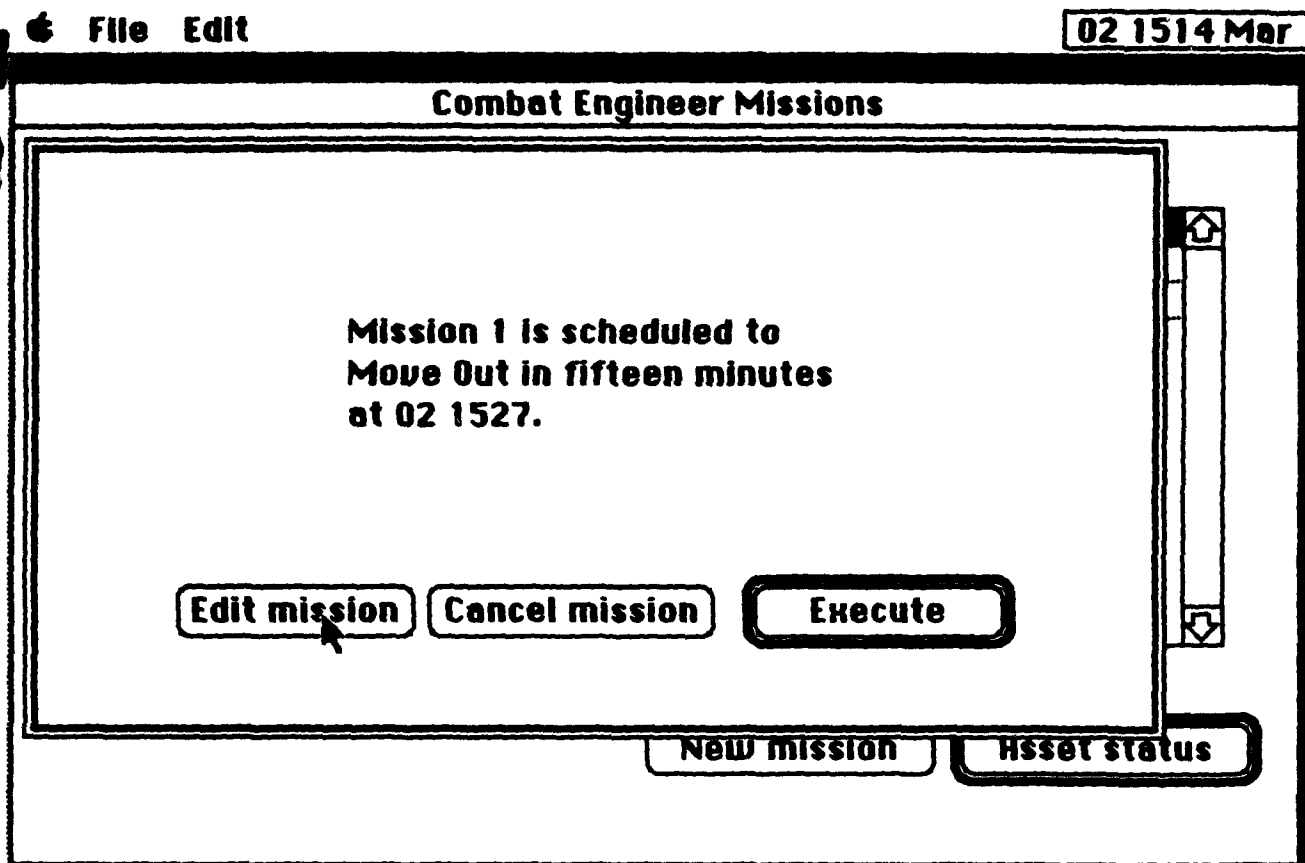


Figure 9.5-2. Move Out Warning Dialog

Click on the **Execute** button to begin the mission according to the Move Out time assigned.

Click on the **Edit mission** button to bring up the Mission Details screen to make changes to the mission.

Click on the **Cancel Mission** button to cancel and remove the mission from the system and to return to Figure 9.5-1.

File Edit

03 1030 Mar

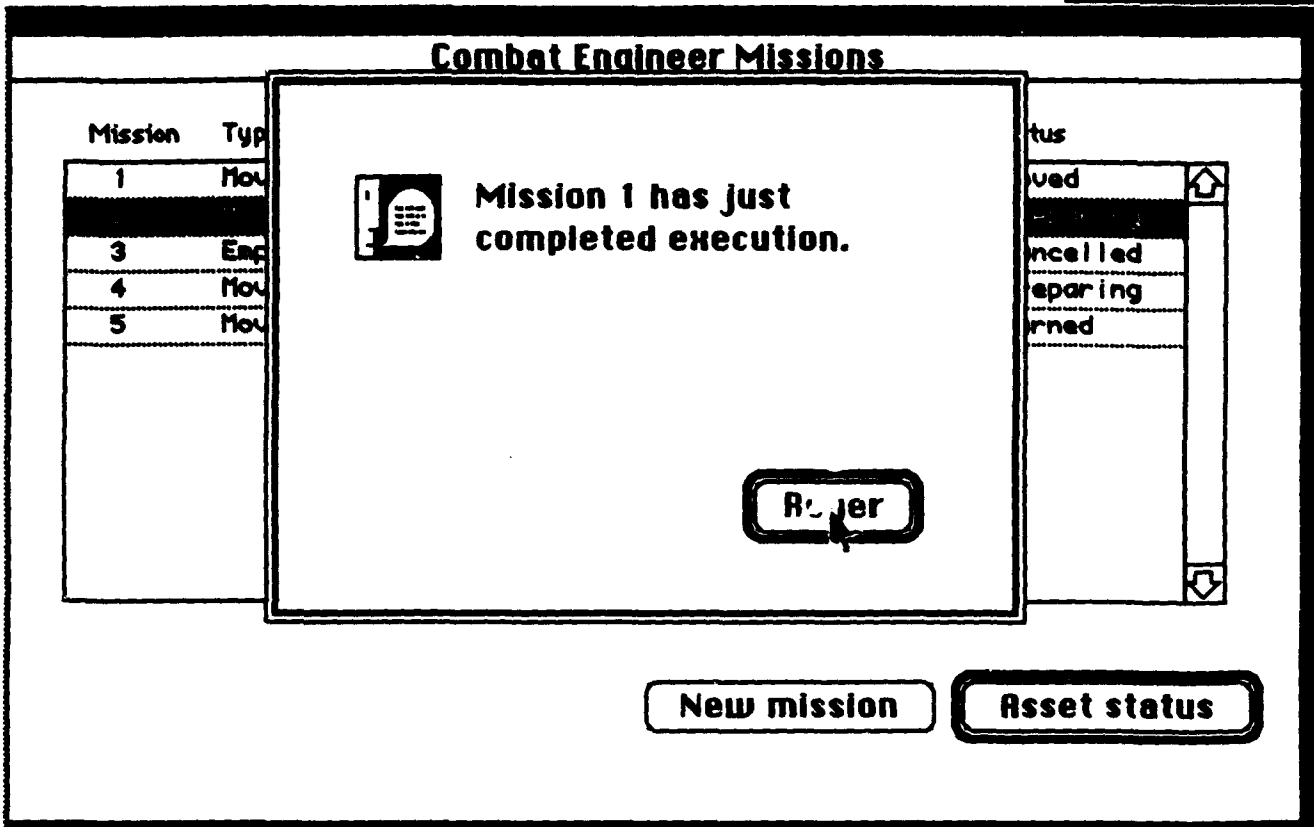


Figure 9.5-3. Mission Completed Dialog

Figure 9.5-3 appears when the mission completed its execution. Click on the Roger button to remove this dialog. The status is changed to "Moved."

### 9.6 Error Messages Dialog.

During the CEC operation, an error message will appear if the user performs action that the system is unable to interpret. The message dialog will indicate what needs to be done to correct the action.

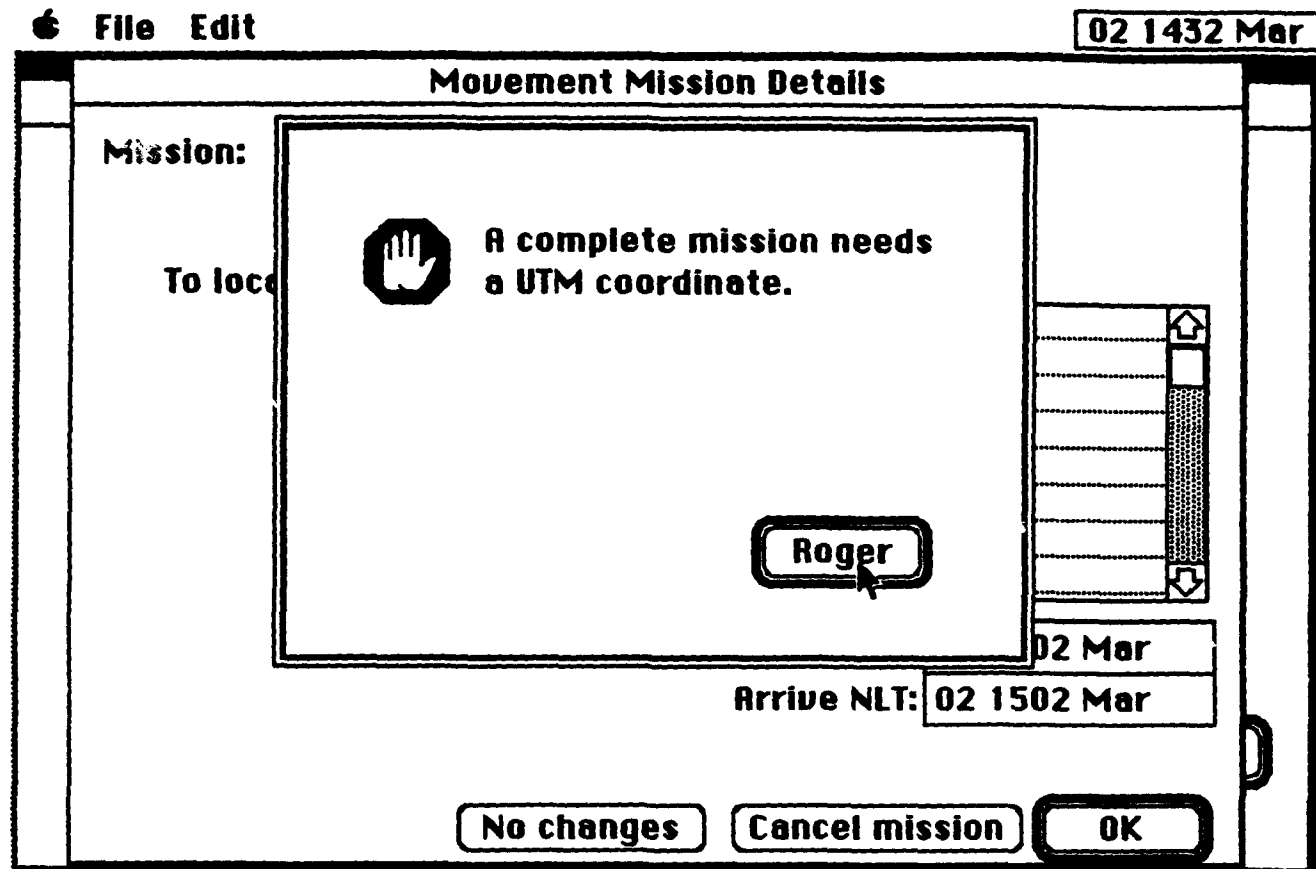


Figure 9.6-1. Sample Error Dialog

Figure 9.6-1 shows a sample error message dialog. Click on the Roger button to remove the error dialog.

#### 9.6.1 Mission Definition Errors.

When defining a mission (Move, Emplace, or Breach), all locations must be specified as a 6- or 8-digit grid coordinate with two letters followed by 6 or 8 digits. The wrong format will generate the following message:

**"A map coordinate must have 2 letters followed by 6 or 8 digits"**

The following message will appear if a 6-digit grid coordinate is not provided:

**"A complete mission needs a UTM coordinate"**

The following message will appear if the provided grid coordinate is not located on the exercise map sheet:

**"AA' is not in a grid zone known to me"**

The following message will appear if the user did not select any asset to be used in the mission:

**"No asset have been selected for this mission"**

The following message will appear if the user specified a Move Out time that is less than 30 minutes from the current time:

**"There is not enough time to prepare for Move Out"**

The following message will appear if the user did not select any asset to be used in the mission:

**"No asset have been selected for this mission"**

#### **9.6.2 Movement Mission Definition Errors.**

The following message will appear if the user did not select a Combat platoon to tow each trailer that need to be moved:

**"You must select a Combat Engineer vehicle for every trailer"**

#### **9.6.3 Emplacement Mission Definition Errors.**

The following message will appear if the user did not enter at least two endpoints locations for a linear minefield:

**"A complete linear minefield needs at least 2 way points"**

The following message will appear if the user did not enter at least three endpoints locations for an area minefield:

**"A complete area minefield requires at least 3 endpoints"**

The following message will appear if the user did not enter the Emplacement party Location:

**"A complete mission needs a valid emplacement party location"**

The following message will appear if the emplacement party location is greater than 200 meters from the minefield:

**"The emplacement party must be within 200 meters of the minefield"**

The following message will appear if the user did not select an asset to emplace the minefield:

**"No valid mine emplacing vehicles have been selected for this mission"**

The following message will appear if the user select an M128 GEMSS to emplace a linear minefield:

**"GEMSS mine emplacing trailers can not be used for linear minefields"**

The following message will appear if the user select an M128 GEMSS and an M57 to emplace scatterable and conventional mines in the same minefield:

**"You can not emplace both scatterable and conventional mines in the same minefield"**

The following message will appear if the user did not select a Combat Engineer platoon vehicle to tow the M128 GEMSS Mine Scattering trailer or the M57 Mine Dispensing trailer:

**"You must select a Combat Engineer platoon vehicle for every mine emplacement trailer"**

The following message will appear if the user failed to select an extra Combat Engineer platoon vehicle to lay the AP mine after choosing an M57 to emplace the AT mine:

**"The M57 can only emplace AT mines. Additional Combat Engineer platoon vehicles must be selected to emplace the AP mines"**

The following message will appear if the user selected more than the required number of Combat Engineer platoons:

**"You have selected extra Combat Engineer platoon vehicles"**

The following message will appear if the user did not enter a Depth for linear minefields:

**"A linear minefield must have a depth greater than 0"**

**9.6.4 Breach Mission Definition Errors.**

The following message will appear if the user did not enter at least two endpoints for the location of the minefield breach:

**"A complete breach needs 2 endpoints"**

The following message will appear if the user did not enter the breaching party location or if the breaching party location is greater than 200 meters from the minefield:

**"A breaching party must be within 200 meters of the lane"**

The following message will appear if the user did not select one or more M58A1 Mine Charge trailers:

**"No valid breaching trailers have been selected for this mission"**

The following message will appear if the user selected an M128 GEMSS or an M57 trailer in stead of one or more M58A1:

**"You have selected mine emplacing trailers for a breaching mission"**

The following message will appear if the user did not select a Combat Engineer platoon vehicle to tow the M58A1 Mine Charge trailer:

**"A Combat Engineer platoon vehicle must be selected for each breaching trailer"**

The following message will appear if the user selected more than the required number of Combat Engineer platoons:

**"You have selected more Combat Engineer platoon vehicles than breaching trailers"**

9.6.5 Mission Monitoring Errors.

NOTE

The user may not edit a mission that has already begun to execute. The OK button will be "grayed out," as shown in Figure 9.6-2.

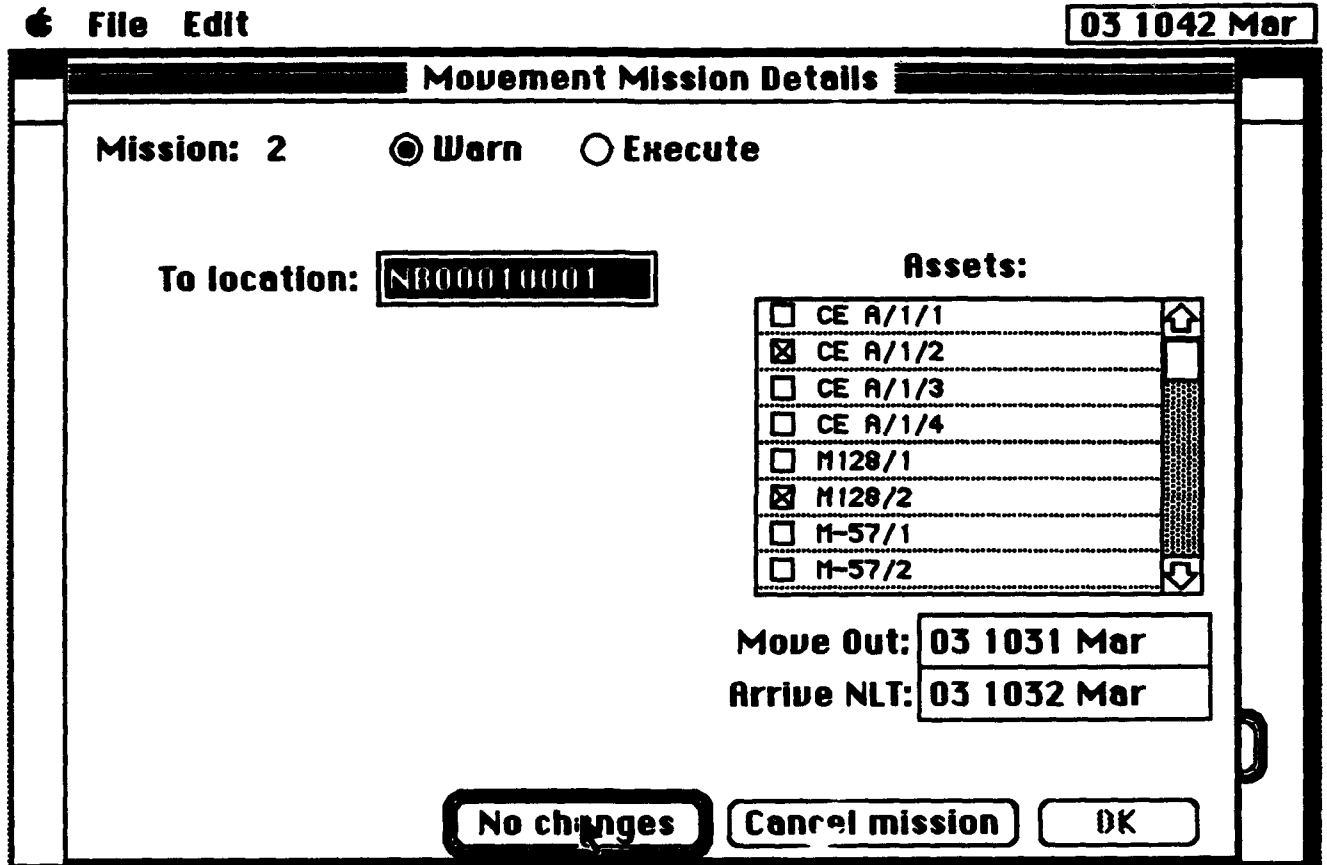


Figure 9.6-2. Completed Mission Details (Showing the OK button Grayed Out)

The following message will appear if the user assigned the same resource to more than one mission (as soon as the second mission begins to execute, the resource conflict will be noted):

**"Mission X has a conflict in resource utilization"**

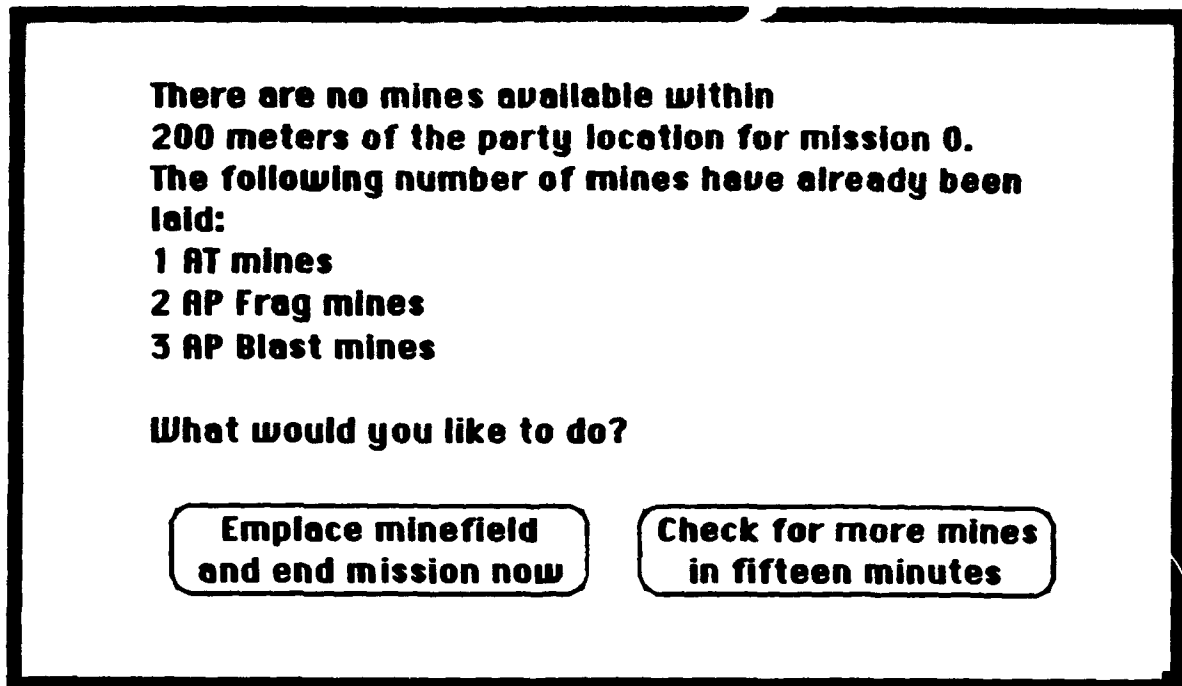


Figure 9.6-3. No Mines Available Error

The No Mines Available error dialog, as shown in Figure 9.6-3, will appear if the emplacement party arrives at the emplacement party location and no mine ammunition available within 200 meters.

Click on the **Emplace minefield and end mission now** button to emplace the minefield with the available number of mine and complete the mission.

Click on the **Check for more mine in fifteen minutes** button to advance the Start Emplacing time 15 minutes. During that 15 minutes, if enough mines arrive to emplace the minefield, the mission will be completed. If no more mines arrive within 15 minutes, the error dialog will reappear.



## **10 Maintenance Console.**

### **10.1 Summary.**

The Maintenance Console allows the operators to maintain status and control over the maintenance teams under their direction. The operators are concerned with the repair and recovery of damaged/disabled tanks and personnel carrier simulators in their sectors. A Maintenance Team may not, however, repair another Maintenance Team or other MCC vehicle (artillery, mortar, TOC, ALOC, or targets) that is disabled or destroyed.

This manual will give an operator already familiar with repair operations, a display-oriented discussion of possible actions based on various possible scenarios. This manual is by no means exhaustive in its approach. However, even a novice will understand the rationale and operation behind each display.

**10.2 Maintenance Team Status Display.**

Figure 10.2-1 is the initial screen of the "Maintenance Console." The screen's columns, from left to right, indicate:

- Team Number.
- Unit Assigned To.
- Current operational status.
- Location.
- Estimated Time of Arrival if "Enroute to."

The Help and Show Repairs boxes are darkened to indicate to the operator what functions are available. Dots in the line of a team indicate that it is disabled. The "Status" column will also indicate disabled.

**Maintenance Console**    **26 0946 Feb**

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
1	A (A)	Ready at	NB50005000	
2	A (A)	Ready at	NB50005000	
3	B (A)	Ready at	NB50005000	
4	B (A)	Ready at	NB50005000	
5	C (R)	Disabled at	NB50005000	
6	C (R)	Ready at	NB50005000	
7	D (R)	Ready at	NB50005000	
8	D (R)	Ready at	NB50005000	
9	BN (S)	Ready at	NB50005000	
10	BN (S)	Ready at	NB50005000	

**Help**
**Repair**
**Dispatch**
**Recover**
**Show Repairs**

Figure 10.2-1. Status Display

### 10.3 Dispatch and Control of Maintenance Teams.

To dispatch a Maintenance Team to a damaged or disabled vehicle:

**Step 1:** The operator selects the team to be dispatched by clicking the mouse anywhere on the line for that team. The entire line will turn black and the Dispatch box will turn from gray to black.

**Step 2:** Click the mouse in the Dispatch box and a detail screen will appear.

Figure 10.3-1 indicates that a repair team has been selected and is ready to be dispatched.

**Maintenance Console** 26 0946 Feb

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
1	A (A)	Ready at	NB50005000	
2	A (A)	Ready at	NB50005000	
3	B (A)	Ready at	NB50005000	
5	C (R)	Disabled at	NB50005000	
6	C (R)	Ready at	NB50005000	
7	D (R)	Ready at	NB50005000	
8	D (R)	Ready at	NB50005000	
9	BN (S)	Ready at	NB50005000	
10	BN (S)	Ready at	NB50005000	

Help
Repair
Dispatch
Recover
Show Repairs

Figure 10.3-1. Dispatch Selection Display

The "Dispatch Maintenance Team" detail display gives the operator the current location of the selected team, the unit the team is assigned to, the location of the Unit Maintenance Collection Point, and allows the operator to direct the team to a new location. The operator can also direct the system to compute an ETA to the desired location or cancel the request.

Figure 10.3-2 presents the layout of the dispatch detail display.

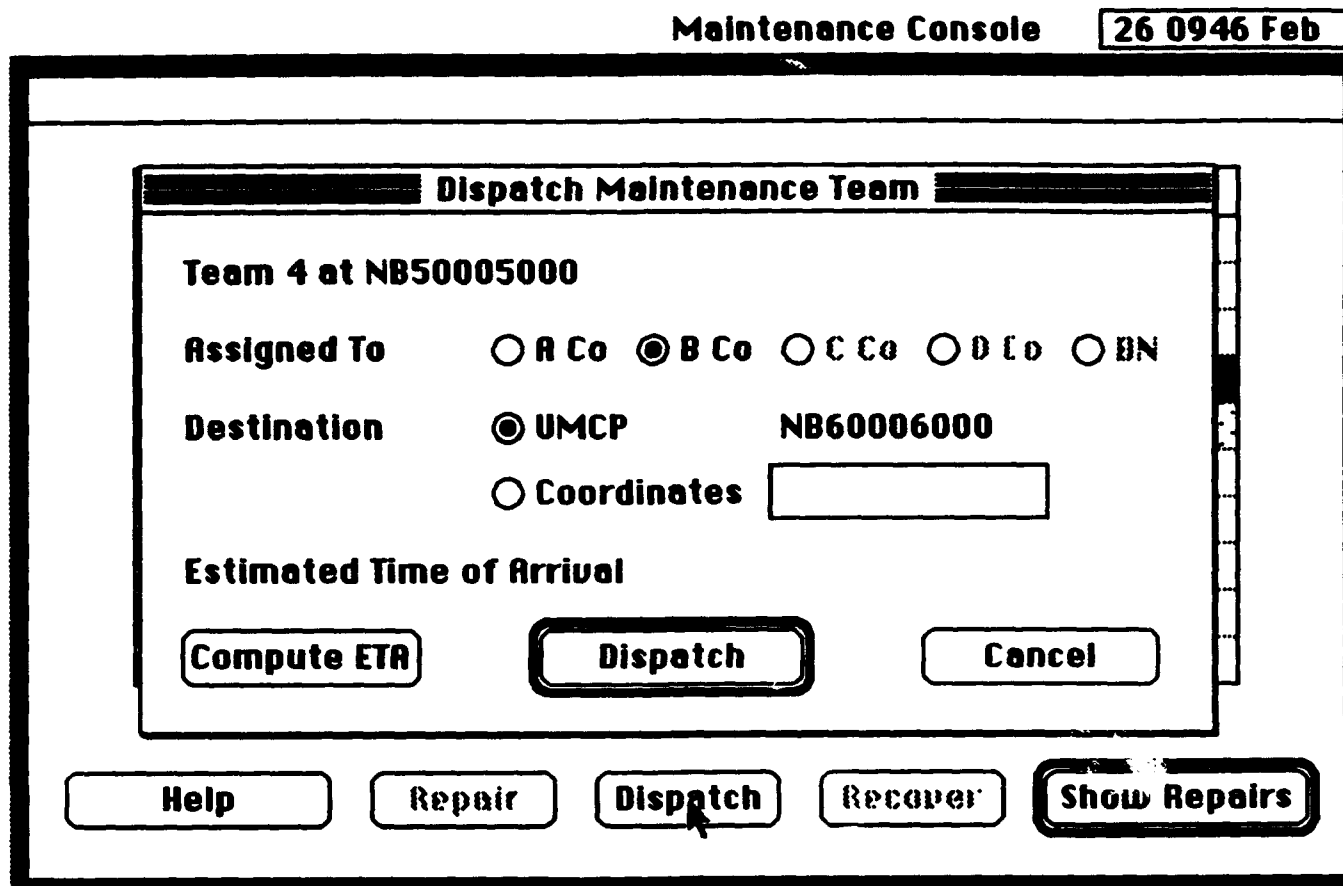


Figure 10.3-2. Dispatch Detail Display

To dispatch a team:

- Step 1: Click the mouse in the circle to the left of the unit the team is to be assigned to (if it is different than the unit the team was initialized to).
- Step 2: The cursor will be positioned in the Coordinates box. If the destination is to be "UMCP", either click the Dispatch box, or enter the six or eight digit coordinates, with grid zone designator, of the team's destination in the Coordinates box.
- Step 3: Either click the Compute ETA box to calculate and display the travel time estimate; or click the Dispatch box to direct the team to the new destination; or click the Cancel box to cancel the dispatch.

Each of the three Step 3 actions will return the operator to the status display. Figure 10.3-3 shows the result of the operator clicking the Compute ETA box.

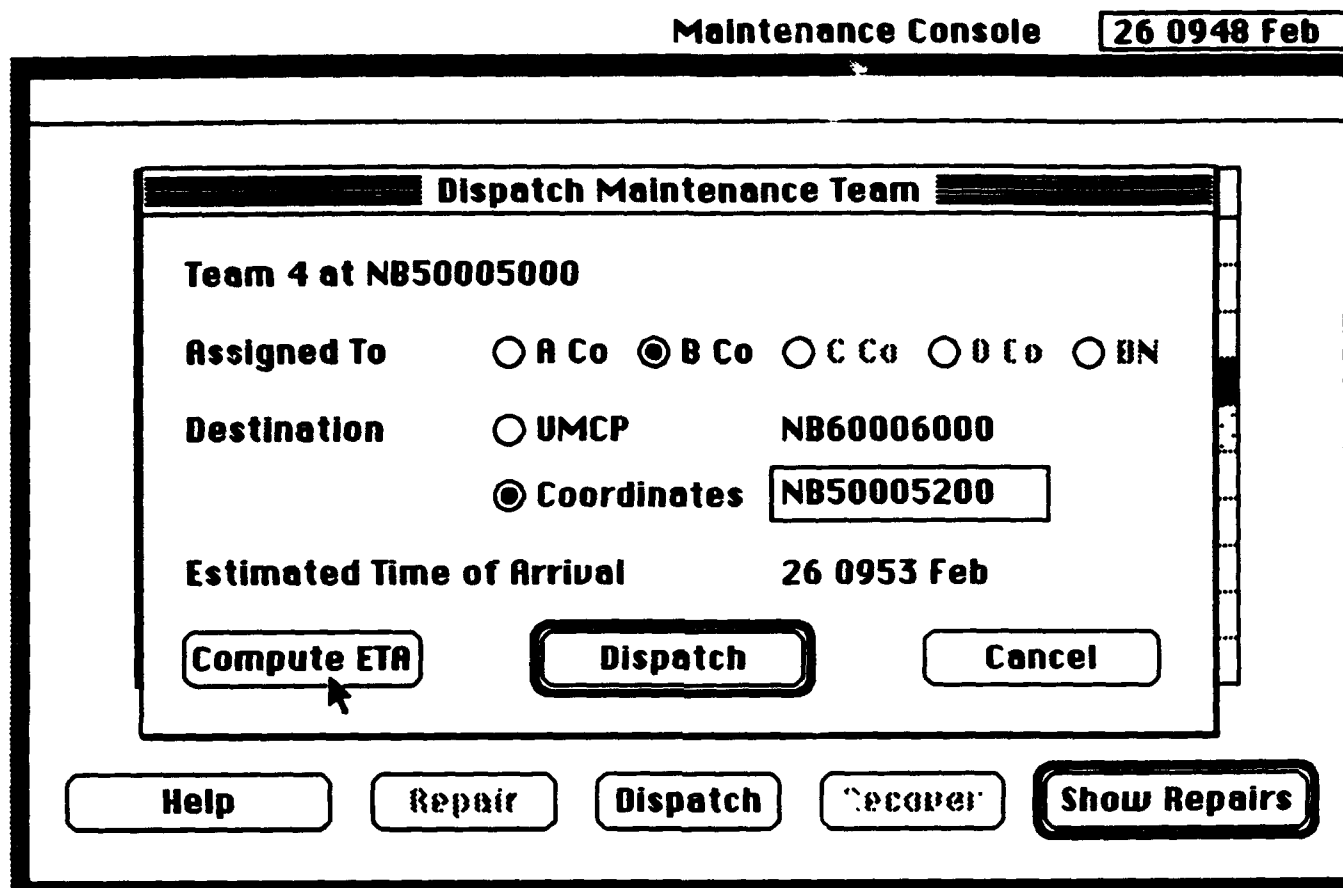


Figure 10.3-3. Use of Dispatch Display

With the team dispatched (the Dispatch box was clicked on the Dispatch Detail display shown in Figure 10.3-3), the operator is presented with an updated status display indicating that the team is "Enroute to" (Status column) and when it is expected to arrive. The Dispatch box has been replaced with a Halt box. This allows the operator to stop the maintenance team should the need arise.

Figure 10.3-4 displays a maintenance team dispatched to a new location and its ETA.

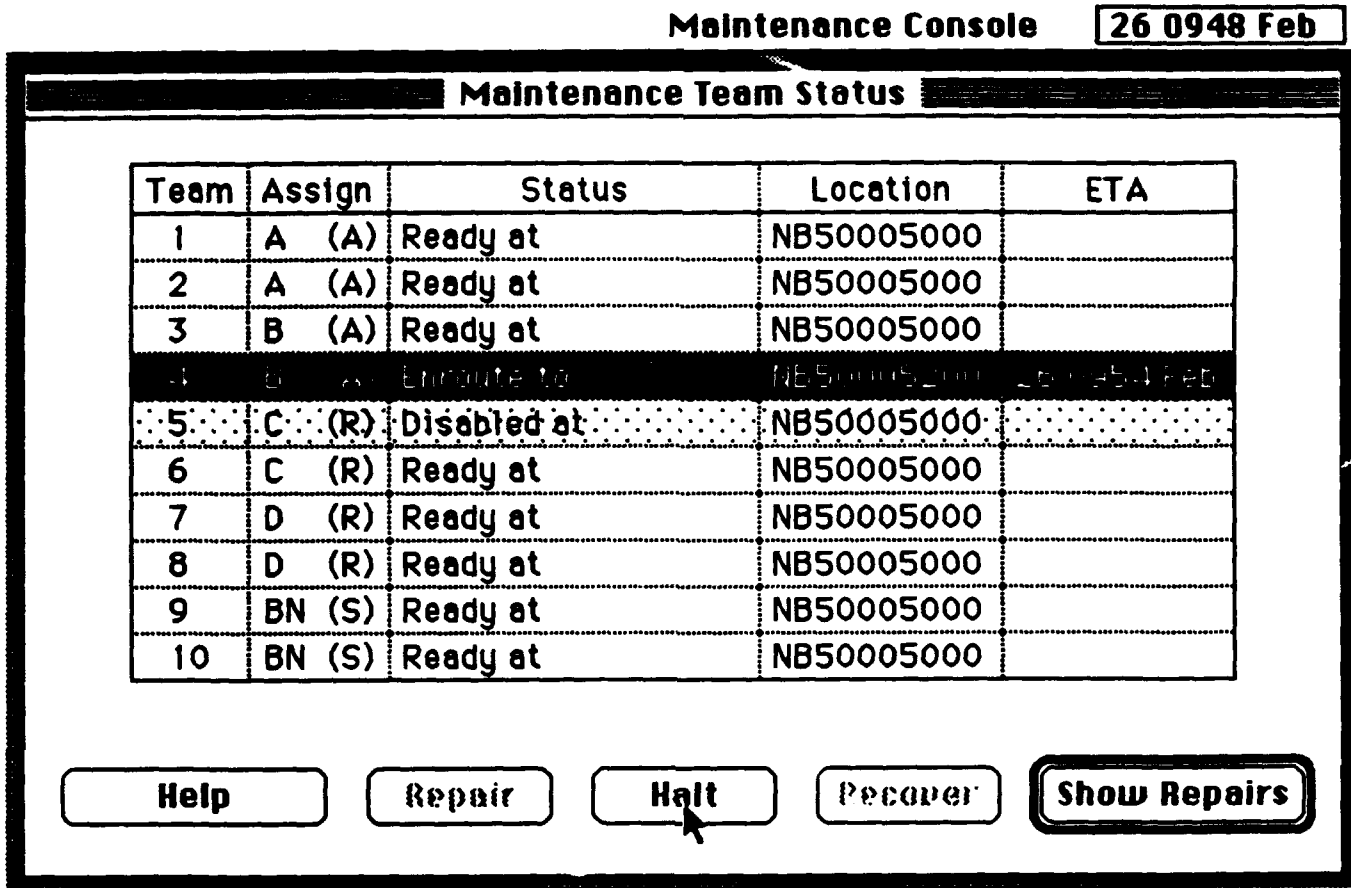


Figure 10.3-4. Dispatched Team

Should the need arise, the operator can direct a dispatched team to discontinue its movement. By selecting a dispatched team and clicking the mouse on the Halt box, the operator is presented with the "Halt Maintenance Team" display (Figure 10.3-5). The operator is shown approximately where the team is, where it is going, and when it is expected to arrive.

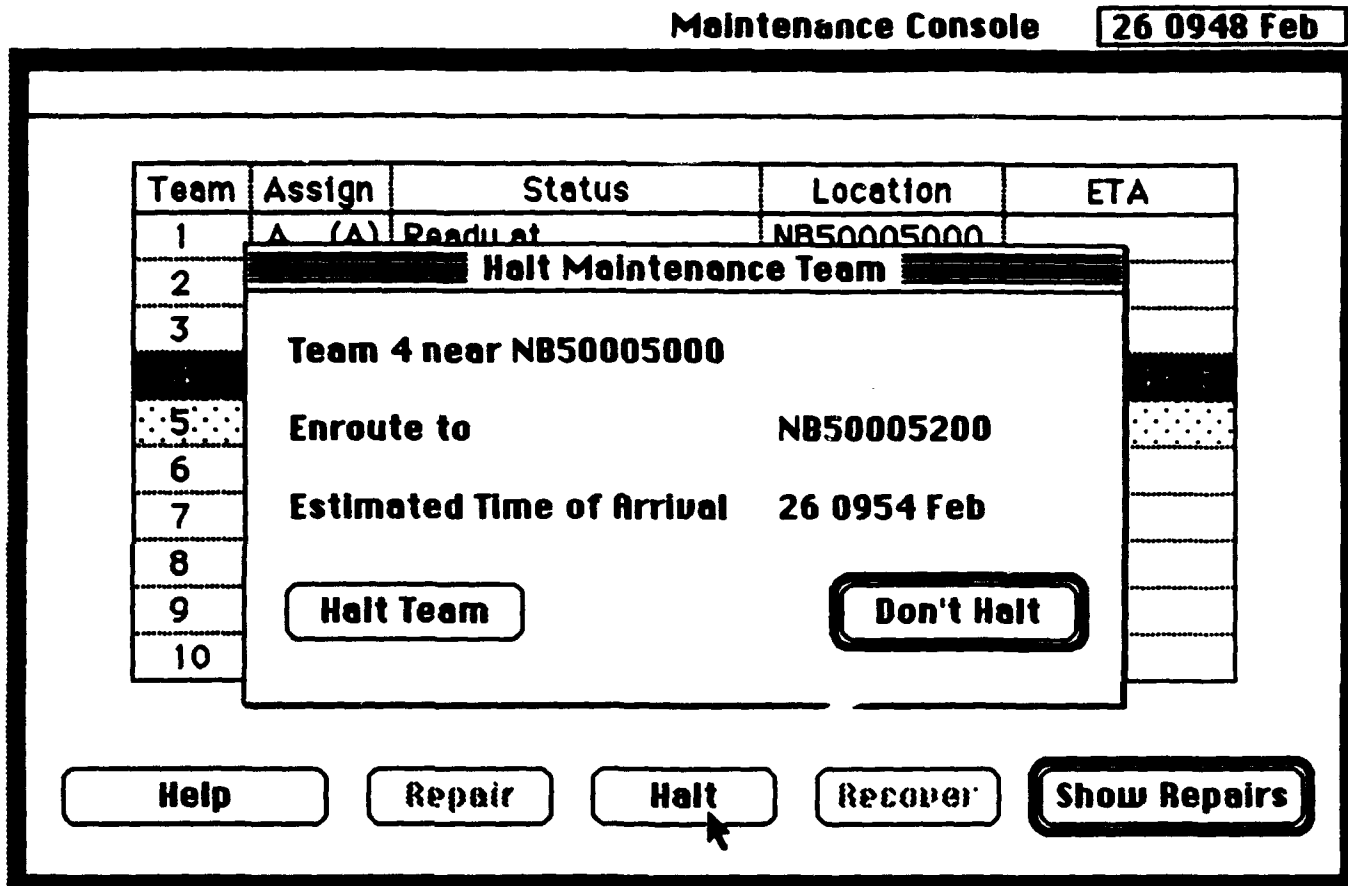


Figure 10.3-5. Halt Detail Display

The operator may either click the **Halt Team** box to direct the team to stop, or click the **Don't Halt** to cancel the operation.

The operator is returned to the status display by either operation.

Should a dispatched team be directed to **Halt**, the status display will indicate the command by changing the "Enroute To" status to "Ready at" in the Status column. The Location column will display the estimated location of the team when directed to stop.

Figure 10.3-6 shows a dispatched team that has been commanded to Halt, with corresponding change in the location from Figure 10.3-1.

**Maintenance Console** 26 0950 Feb

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
1	A (A)	Ready at	NB50005000	
2	A (A)	Ready at	NB50005000	
3	B (A)	Ready at	NB50005000	
4	B (A)	Ready at	NB50005000	
5	C (R)	Disabled at	NB50005000	
6	C (R)	Ready at	NB50005000	
7	D (R)	Ready at	NB50005000	
8	D (R)	Ready at	NB50005000	
9	BN (S)	Ready at	NB50005000	
10	BN (S)	Ready at	NB50005000	

Help
Repair
Dispatch
Recover
Show Repairs

Figure 10.3-6. Result of Halt Command

If the Don't Halt button was clicked, the Team Status display will continue to display "Enroute to" as the status for the dispatched team, as in Figure 10.3-4.



When a dispatched team has arrived at its assigned destination, the operator will be alerted by an audible beep and the display in Figure 10.3-7. The operator acknowledges the information by clicking the Roger box or pressing the Return key. This message will appear over any of the displays currently being displayed to the operator. The operator must acknowledge this message to enable further actions on the Maintenance Console.

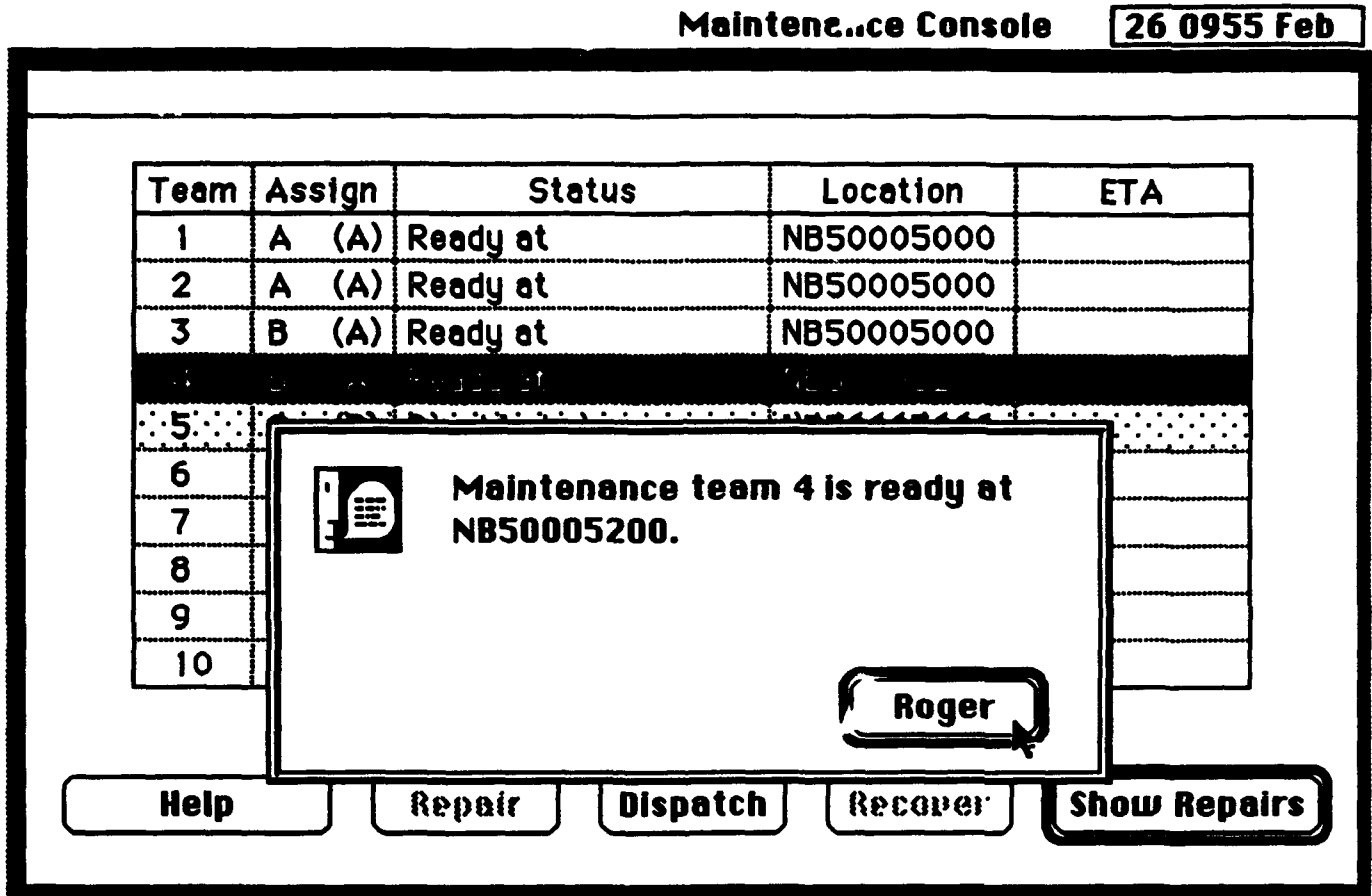


Figure 10.3-7. ARRIVAL AT LOCATION Message

Click the mouse on the Roger box to acknowledge the message.

## 10.4 Repair Operations.

## Maintenance Console

02 1526 Mar

## Maintenance Team Status

Team	Assign	Status	Location	ETA
2	BN (S)	Disabled at	ES75178528	
3	BN (S)	Ready at	ES75228525	
4	BN (S)	Ready at	ES75258522	
5				
6				
7				
8				
9				
10				



Maintenance team 1 is adjacent  
to 0 (M1) at ES75028500.

Roger

Help

Repair

Dispatch

Recover

Show Repairs

Figure 10.4-1. ADJACENT Message

When the dispatched maintenance team has reached its destination, the operator is presented with an "arrival" message, as shown in Figure 10.3-7, indicating that the team has reached the commanded destination and its status is ready. If the team is within 30 meters of a damaged/disabled tank, the REPAIR and RECOVER boxes become darkened and an "adjacent" message, as shown in Figure 10.4-1, is presented to the operator noting which vehicle the team is near. This message will appear over any of the displays currently being displayed to the operator. The operator must acknowledge this message to enable further actions on the Maintenance Console.

Click the mouse on the ROGER box to acknowledge this information.

## Maintenance Console

02 1526 Mar

## Maintenance Team Status

Team	Assign	Status	Location	ETA
2	BN (S)	Disabled at	ES75178528	
3	BN (S)	Ready at	ES75228525	
4	BN (S)	Ready at	ES75258522	
5	BN (S)	Ready at	ES75288517	
6	BN (S)	Ready at	ES75298513	
7	BN (S)	Ready at	ES75298508	
8	BN (S)	Ready at	ES75288503	
9	BN (S)	Ready at	ES75258498	
10	BN (S)	Ready at	ES75228495	

Help

Repair

Dispatch

Recover

Show Repairs

Figure 10.4-2. REPAIR/RECOVERY Commands

After the operator clicks the ROGER box in Figure 10.4-1, the status display (Figure 10.4-2) will show all boxes darkened for the newly-arrived maintenance team. The operator will click the REPAIR box to start the repair cycle. For a disabled vehicle, the vehicle may be RECOVERed only (refer to paragraph 10.5).

## Maintenance Console

02 1527 Mar

## Start Repair

Team 1 at ES75028500

Servicing 0 (M1)

Description	Class	Time	
Replace Pilot Relay and Starter	Electrical	30	↑
Replace Power Pack	Automotive	60	
Repair Service Brake	Automotive	15	
Repair Parking Brake	Automotive	15	
-----			
Repair Turret Mount Interface	Turret	240	
Repair Gun Elevation Drive	Turret	30	
Repair Stab System	Turret	30	↓

Help

Start Repair

Cancel

Figure 10.4-3. REPAIR Detail Display

Maintenance teams are dispatched to a damaged/disabled vehicle with only a limited amount of tools and equipment available. They also have been dispatched with repair requests from the vehicle's crew.

A maximum of one automotive and one fire control repair can be accomplished at a time.

To repair a vehicle:

- Step 1: Scroll through the possible repairs by using the arrows or slide box to display the requested repair.
- Step 2: Click the mouse on the line of the requested repair.
- Step 3: Either click the mouse on the Start Repair box to start the repair (the time it will take is noted in the time column of the Start Repair display shown in Figure 10.4-3), or click the mouse on the Cancel box to return to the Status display.

## Maintenance Console

02 1527 Mar

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
2	BN (S)	Disabled at	ES75178528	
3	BN (S)	Ready at	ES75228525	
4	BN (S)	Ready at	ES75258522	
5	BN (S)	Ready at	ES75288517	
6	BN (S)	Ready at	ES75298513	
7	BN (S)	Ready at	ES75298508	
8	BN (S)	Ready at	ES75288503	
9	BN (S)	Ready at	ES75258498	
10	BN (S)	Ready at	ES75228495	

Figure 10.4-4. REPAIRING Status

After starting the repair, the operator is returned to the status display, where the status now shows "Repairing M1 at" in the status column as pictured in Figure 10.4-4. For a selected team that is in the process of repairing a vehicle, only the Show Repairs and Help boxes are available to the operator.

## Maintenance Console

02 1527 Mar

**Repairs in Progress**

Team	Location	Disabled	Description	ETC	Status	
1	ES75028500	0 (M1)	Repair Turret Traverse	02 1557 Mar	Active	

Figure 10.4-5. Show Repairs Display

The operator may review the repair operations in progress. By clicking on the Show Repairs box on the status display, the operator is presented with the "Repairs in Progress" display shown in Figure 10.4-5. The team number, location, vehicle being repaired, what is being repaired, estimated time to complete, and status are displayed for each team actively repairing vehicles.

To return to the status display, click the Show Teams box.


**Maintenance Console**

**03 1422 Mar**

---

**Repairs In Progress**

Team	Location	Disabled	Description	ETC	Status
1	ES75008500	0 (M1)	Repair Turret Traverse	03 1422 Mar	Done



**Maintenance team 1 has  
completed a repair for 0: Repair  
Turret Traverse Drive.**

**Roger**

Help

Cancel Repair

Show Teams

Figure 10.4-6. COMPLETION Message

After a team has completed the directed repairs to the damaged vehicle, the operator will be presented with a "completion" message (Figure 10.4-6), and the Repairs in Progress display will reset the status from "Active" to "Done." The Teams display will change the Status column from "repairing" to "near." This message will appear over any of the displays currently being displayed to the operator. The operator must acknowledge this message to enable further actions on the Maintenance Console.

To continue maintenance operations, click on the Roger box to acknowledge the message.

**Maintenance Console**

**03 1328 Mar**

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
2	( )	Ready at	ES75378528	
3	( )	Ready at	ES75428525	
4	( )	Ready at	ES75458522	
5	( )	Ready at	ES75488517	
6	( )	Ready at	ES75498513	
7	( )	Ready at	ES75498508	
8	( )	Ready at	ES75488503	
9	( )	Ready at	ES75458498	
10	( )	Ready at	ES75428495	

Figure 10.5-1. Recovery Mode Selection

### 10.5 Recovery Operations.

Should the damage to the vehicle be too great for the repair team to handle, the vehicle will be towed to a maintenance area that has the capacity to make the needed repairs, like the Unit Maintenance Collection Point, for dispensation. In this case, the operator will click the mouse button on the Recover box (Figure 10.5-1) to direct the maintenance team to tow the vehicle.



**Maintenance Console** **03 1329 Mar**

---

**Maintenance Team Status**

**Recover Vehicle**

**Team 1 at ES75028500**

**Recovering 0 (M1)**

**Destination**       **UMCP**      **ES75308510**

**Coordinates**     

**Estimated Time of Arrival**      **03 1335 Mar**

Figure 10.5-2. Recover Detail Display

After the operator has clicked the **Recover** box on the status display, the **Recover Vehicle** display (Figure 10.5-2) is presented to the operator. The operator must enter the destination coordinates for the towed vehicle.

To direct the team to tow the vehicle:

- Step 1:**      Enter the destination coordinates, if different than the **UMCP**, in the box marked by the blinking cursor.
- Step 2:**      Either click the **Compute ETA** box to calculate the estimated time of arrival at the desired coordinates; or click the **Dispatch** box to direct the team to hitch up the vehicle and begin the tow function; or click the **Cancel** box to terminate the beginning of Recovery mode.

The status display, shown in Figure 10.5-1, will be presented to the operator after either the **Dispatch** or **Cancel** box is clicked.

Maintenance Console

03 1329 Mar

**Maintenance Team Status**

Team	Assign	Status	Location	ETA
2	( )	Ready at	ES75378528	
3	( )	Ready at	ES75428525	
4	( )	Ready at	ES75458522	
5	( )	Ready at	ES75488517	
6	( )	Ready at	ES75498513	
7	( )	Ready at	ES75498508	
8	( )	Ready at	ES75488503	
9	( )	Ready at	ES75458498	
10	( )	Ready at	ES75428495	

Figure 10.5-3. HITCHING Status Display

After the operator has clicked on the Dispatch box (Figure 10.5-2) to direct the maintenance team to tow the vehicle, the status display is presented to the operator indicating that the maintenance team is hitching the disabled vehicle to their vehicle (Status column) in preparation of towing, as shown in Figure 10.5-3. Because repair was not possible and the team is already in recovery mode, those boxes on the Status display are grayed out. The operator is given the option of asking for Help, Halting the tow direction, or Show Repairs being made by other teams under the operators command.

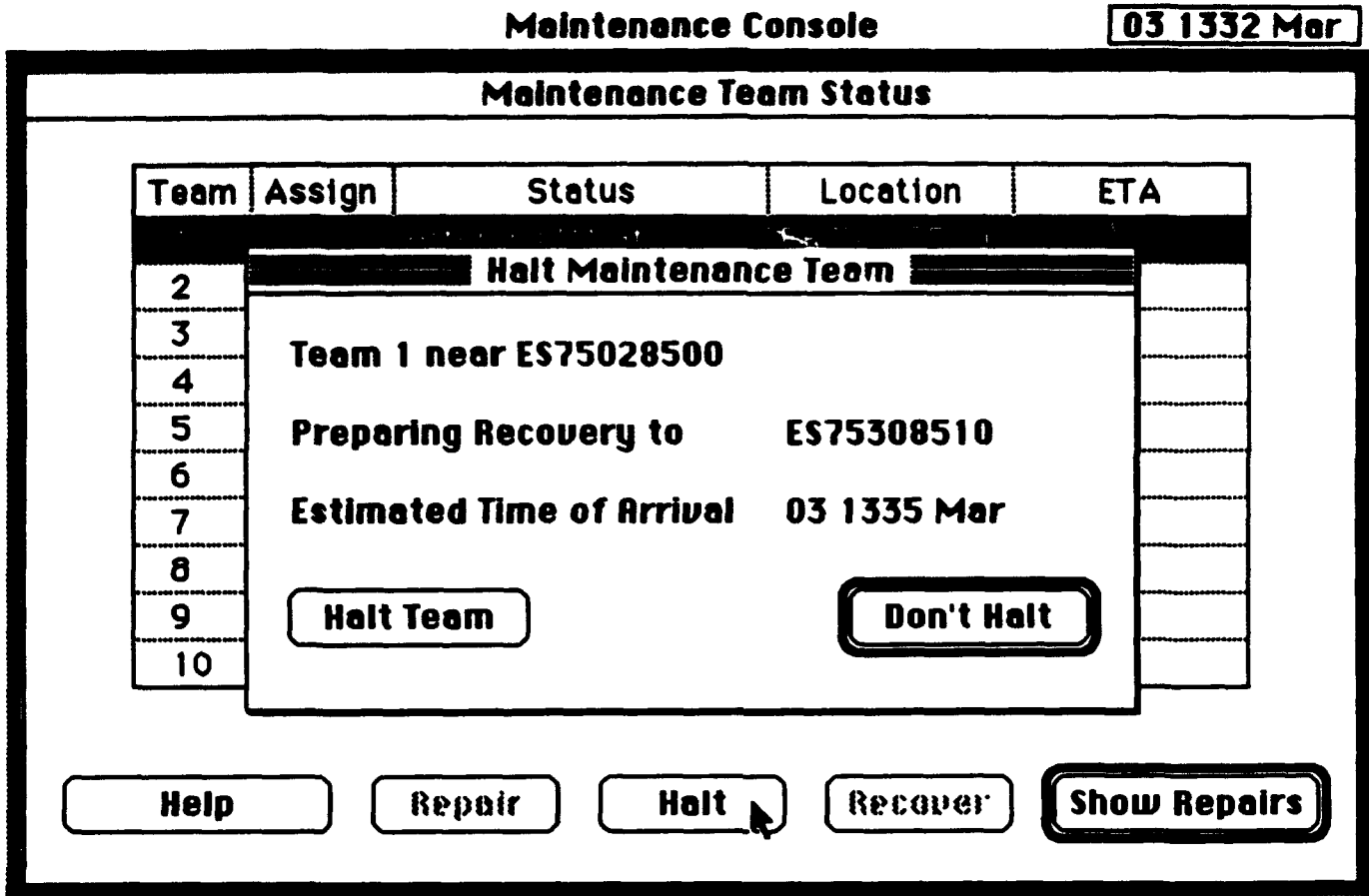


Figure 10.5-4. HALT Recovery Display

Should a need arise to stop a maintenance team in recovery mode, the operator selects that team from the Status display (Figure 10.5-3), and clicks the mouse on the **Halt** box. This action presents the Halt Maintenance Team display (Figure 10.5-4) to the operator for action. The display identifies the team number, where it is, where it is scheduled to tow the vehicle to, and its ETA.

Either click the mouse on the **Halt Team** to direct the maintenance to stop towing the vehicle, or click the mouse on the **Don't Halt** to allow the maintenance to continue towing the vehicle.


Either action returns the operator to the Status display.

**Maintenance Console**

**03 1334 Mar**

**Repairs in Progress**

Team	Location	Disabled	Description	ETC	Status

 **Maintenance team 1 is recovering at ES75028500.**

**Roger**

**Help**      **Cancel Repair**      **Show Teams**

Figure 10.5-5. TOWING Message

When the time allotted for the maintenance team to complete the hitching function of the disabled vehicle to their vehicle has elapsed, the operator will be alerted to that by a message indicating that the maintenance team is now towing the vehicle to the directed coordinates (Figure 10.5-5). This message will appear over any of the displays currently being displayed to the operator. The operator must acknowledge this message to enable further actions on the Maintenance Console.

To acknowledge the message, click the mouse on the Roger box. This returns the operator to the previously selected display.

## Maintenance Console

03 1335 Mar

**Maintenance Team Status:**

Team	Assign	Status	Location	ETA
2	( )	Ready at	ES75378528	
3	( )	Ready at	ES75428525	
4	( )	Ready at	ES75458522	
5	( )	Ready at	ES75488517	
6	( )	Ready at	ES75498513	
7	( )	Ready at	ES75498508	
8	( )	Ready at	ES75488503	
9	( )	Ready at	ES75458498	
10	( )	Ready at	ES75428495	

Figure 10.5-6. RECOVERING Status

When the maintenance team is towing the vehicle, the Status display will indicate that in the Status column with the status "Recovering to" (Figure 10.5-6).

## Maintenance Console

03 1336 Mar

## Maintenance Team Status

Team	Assign	Status	Location	ETA
2	( )	Ready at	ES75378528	
3	( )	Ready at	ES7 <sup>F</sup> 428525	
4	( )	Ready at	ES75458522	
5				
6				
7				
8				
9				
10				



Maintenance team 1 is ready at  
ES75308510.

Roger

Help

Repair

Dispatch

Recover

Show Repairs

Figure 10.5-7. TOWING ARRIVAL Message

When the maintenance team has arrived at the destination coordinates, the operator will be alerted with a "ready" message. Figure 10.5-7 shows the message and the Status display with the "Recovering to" status changed to the "Near M1 at" status. This message will appear over any of the displays currently being displayed to the operator. The operator must acknowledge this message to enable further actions on the Maintenance Console.

To acknowledge the message, click the Roger box to return to the previously selected display.

**Notes.****1.1****Abbreviations/Acronyms.**

ALC	Administration/Logistics (Macintosh) Console
ALOC	Administration/Logistics (Macintosh) Console
ATKHB	US Army Attack Helicopter Battalion
BN	Bolt, Beranek and Newman
BDA	Bomb Damage Assessment
BSA	Brigade Support Area
CAS	MCC Close Air Support (Macintosh) Console
CBU	Cluster Bomb Unit
CEA	Combat Engineer Assets
CEC	MCC Combat Engineering (Macintosh) Console
CSR	Controlled Supply Rate
DSA	Distributed Simulator Architecture
ETA	Estimated Time of Arrival
FARE	Forward Area Refueling Equipment
FARP	Forward Area Refueling Point
FPF	Final Protective Fire
FRAGO	Fragmentary Order
FRED	Fully REconfigurable Device
FSE	MCC Fire Support (Engineering) (Macintosh) Console
FSO	Fire Support Officer
F/W	Fixed Wing
Maint	Maintenance Console
MCC	Management Command Console
MIPS	A workstation and chip vendor.
NE	North East
OPORD	Operation Order
OS	Operating System
PDU	Protocol Data Unit
PVD	Plan View Display
RWA	Rotary-Winged Aircraft (helicopter)
SCC	SIMNET Control Console
SIMNET	SIMulation NETwork (protocol)
SW	South West
TAC CP	Tactical Command Post
TOC	Tactical Operation Center
UMCP	Unit Maintenance Collection Point
UTM	Universal Transverse Mercator (map coordinates)

APPENDIX A

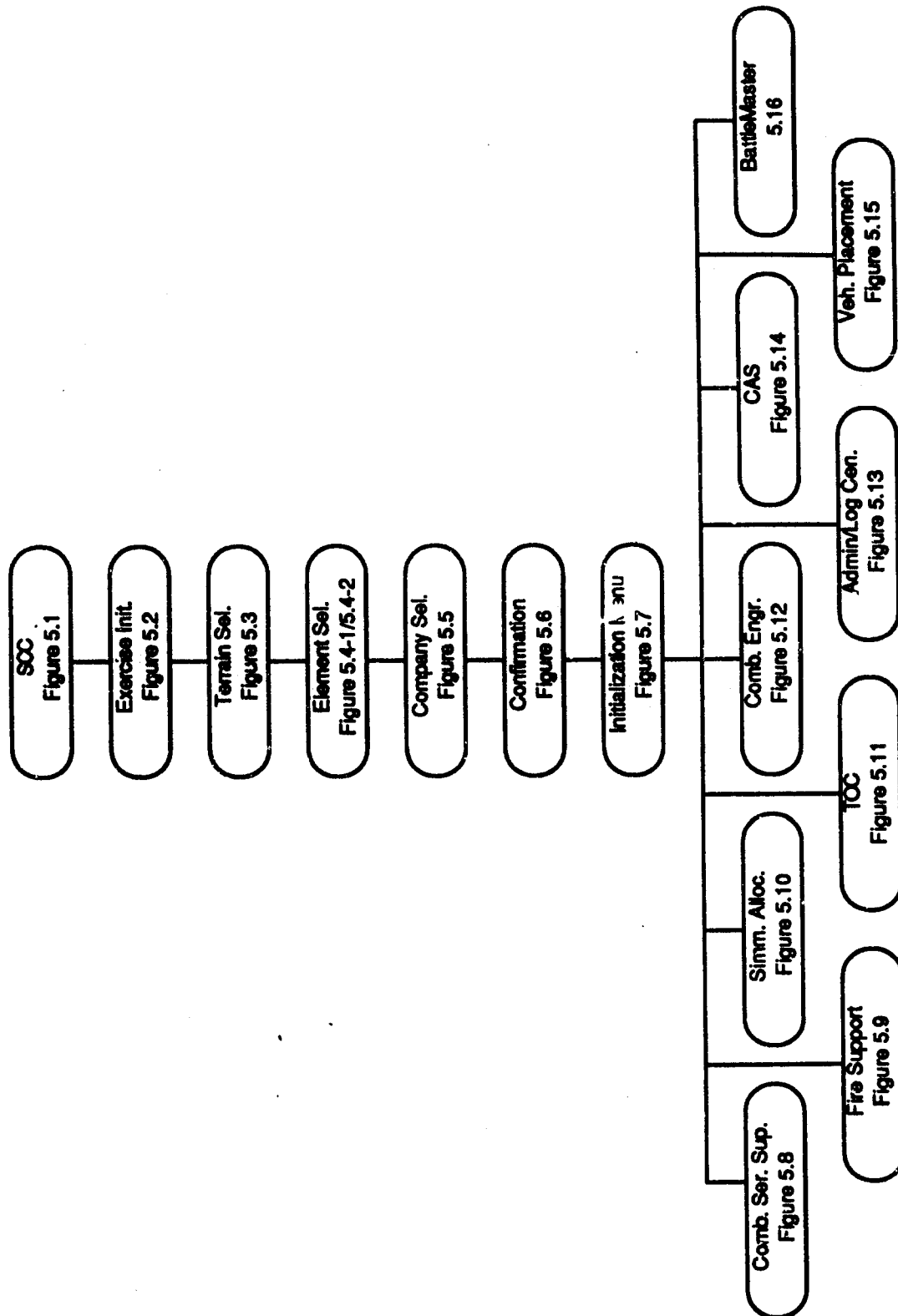


Figure A1 SIMNET Control Console Initialization



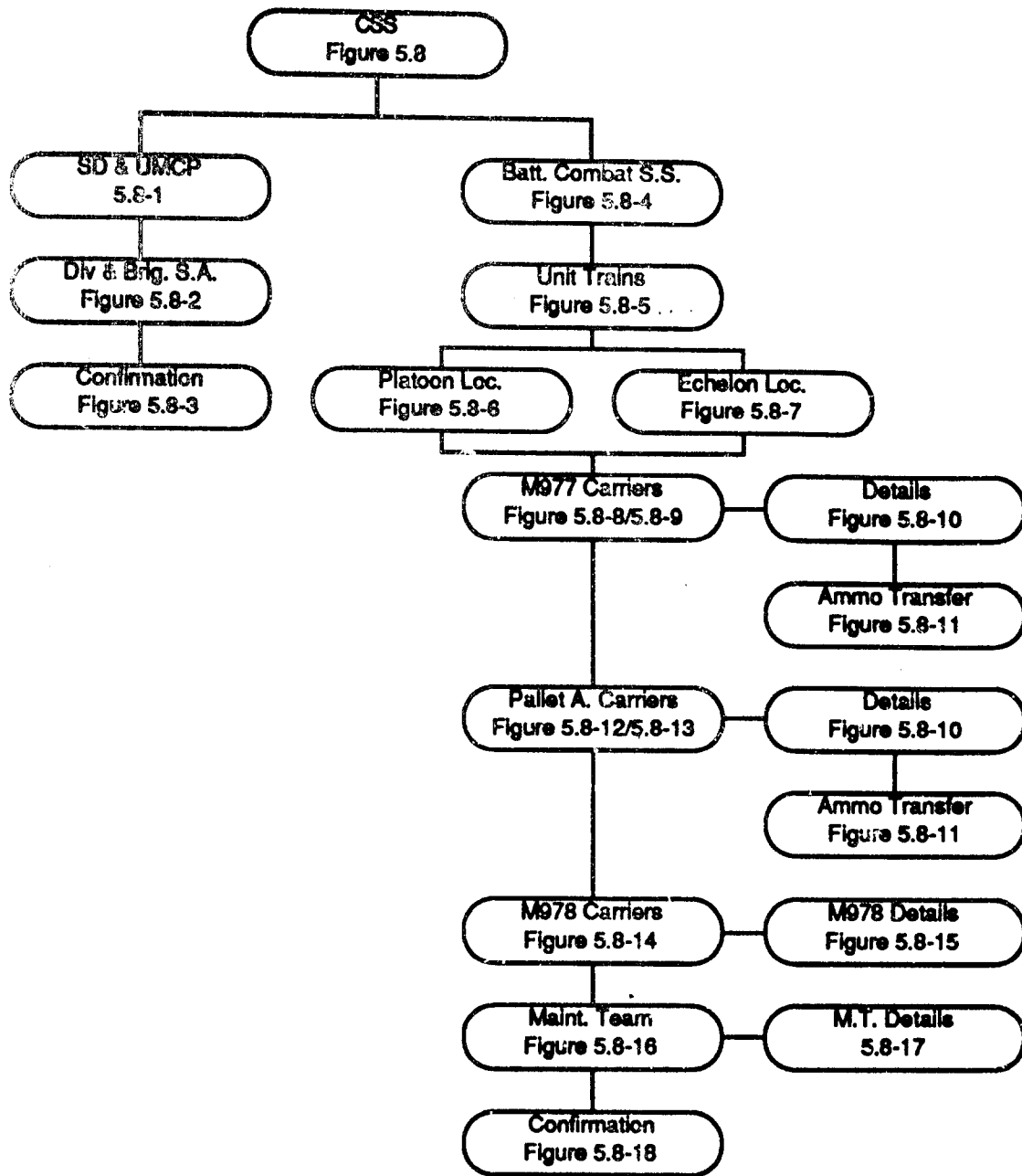
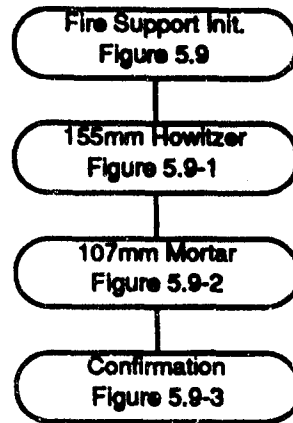
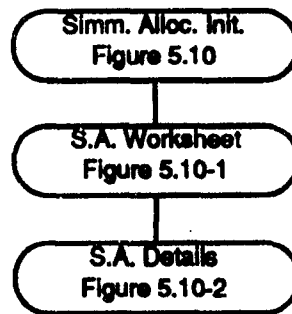


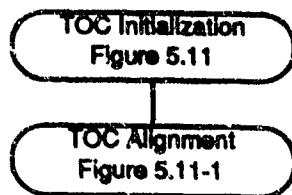
Figure A2 Combat Service Support Initialization



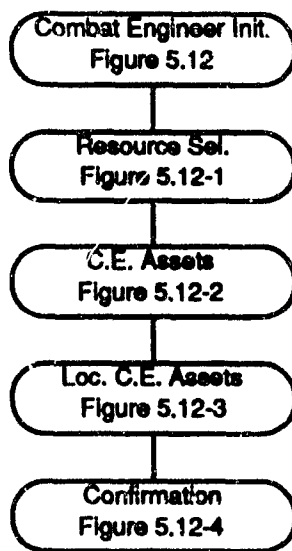
**Figure A3 Fire Support Initialization Screens Flow Diagram**



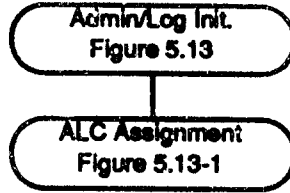
**Figure A4 Simulator Allocation Screens Flow Diagram**



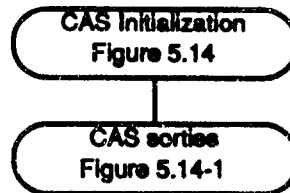
**Figure A5 Command Post Initialization Screens  
Flow Diagram**



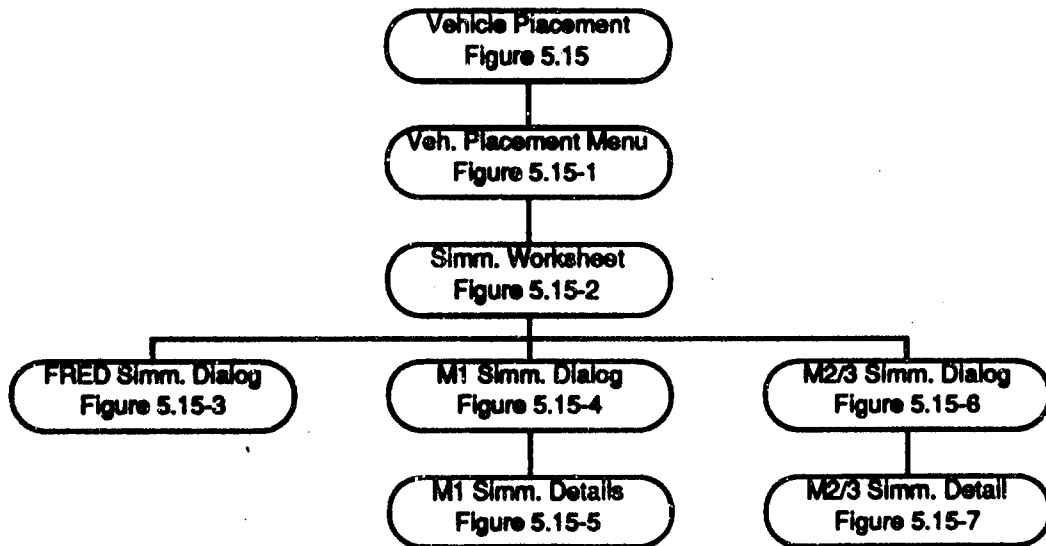
**Figure A6 Combat Engineer Initialization Screens  
Flow Diagram**



**Figure A7 Admin/Log Center Initialization Screens Flow Diagram**



**Figure A8 Close Air Support Initialization Screens Flow Diagram**



**Figure A9 Vehicle Placement Screens Flow Diagram**

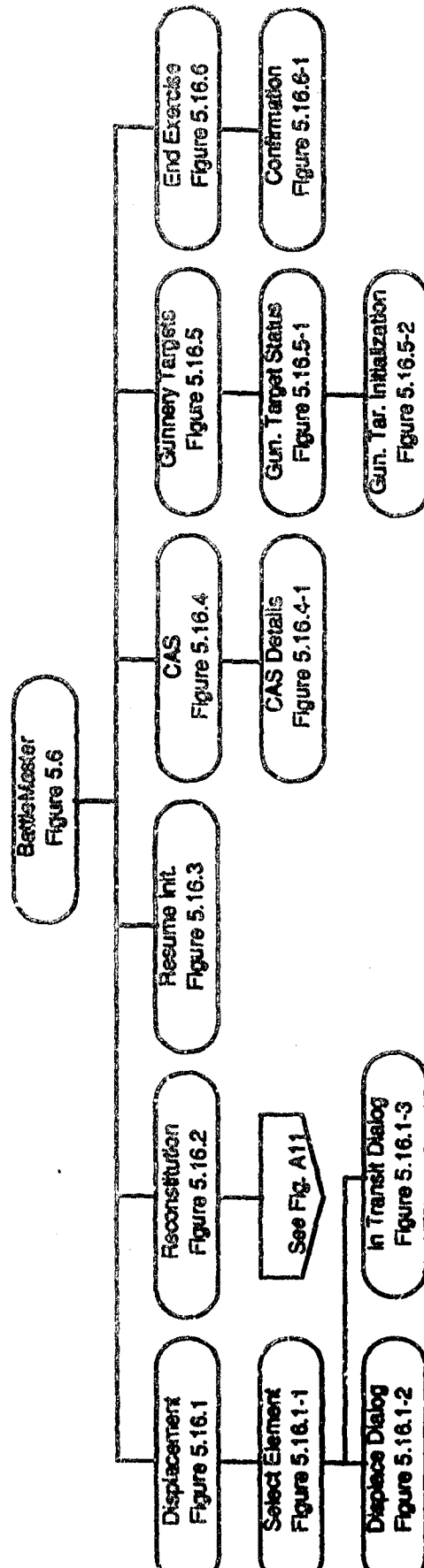


Figure A10 BattleMaster Functions Screens  
Flow Diagram

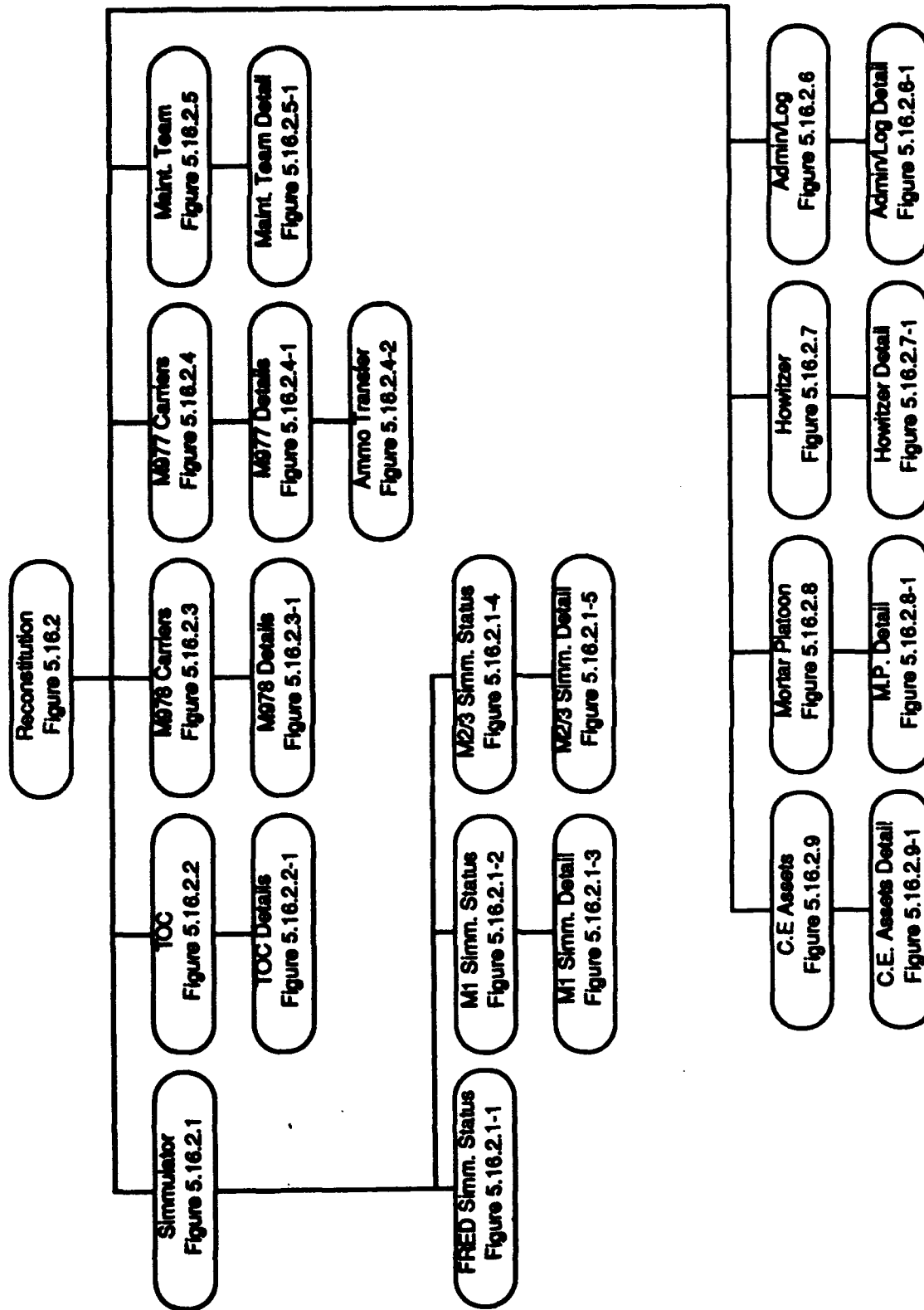


Figure A11 Reconstitution Screens Flow Diagram

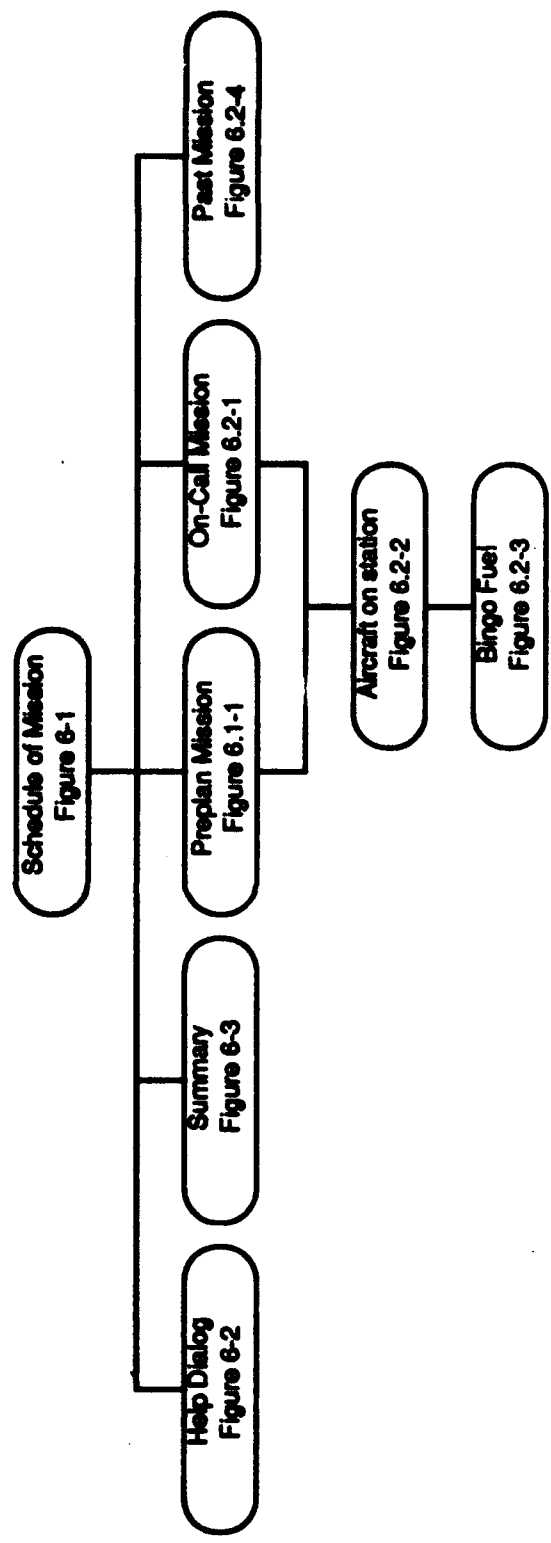


Figure A12 Close Air Support Console Screens  
Flow Diagram

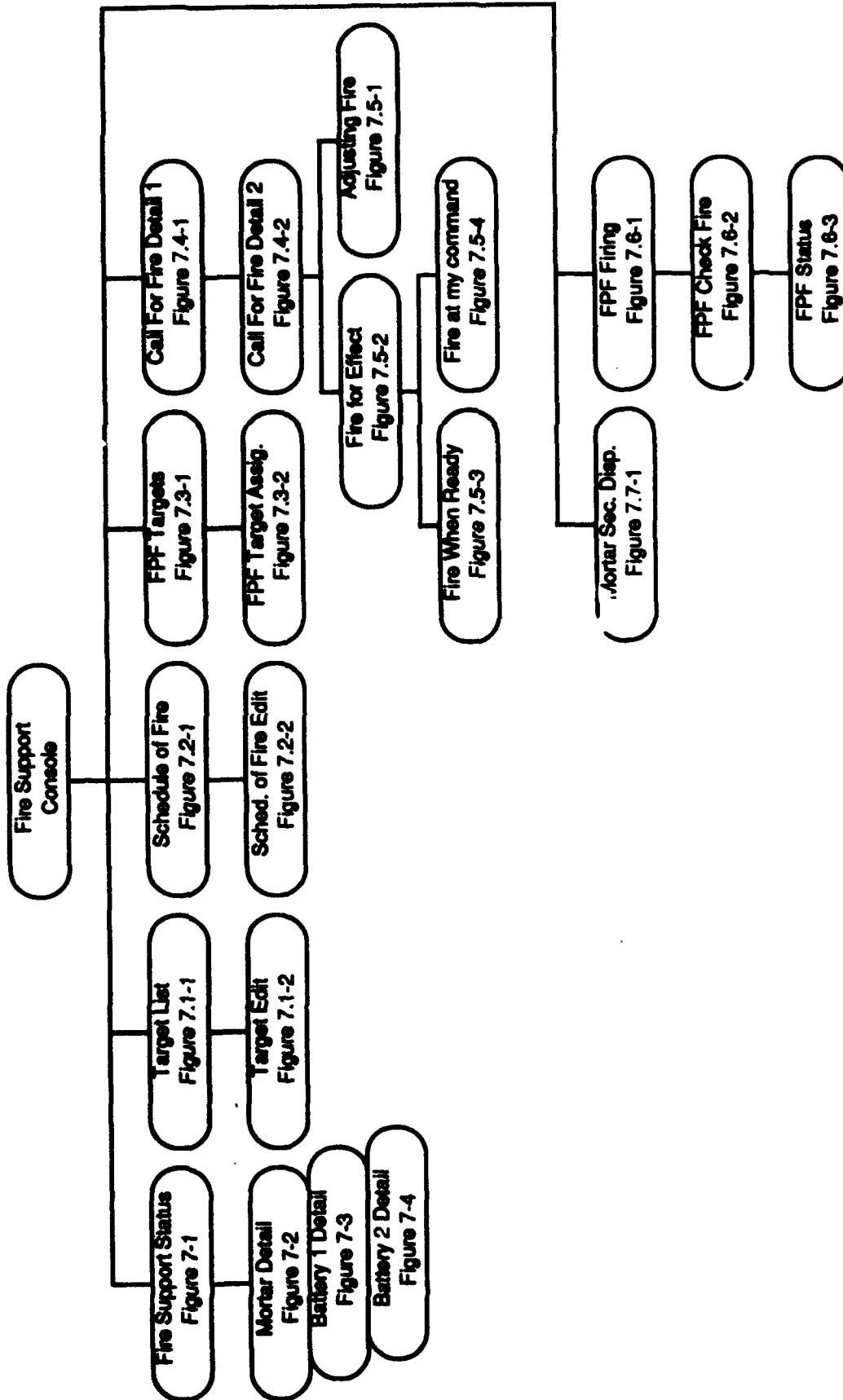


Figure A13 Fire Support Console Screens Flow Diagram



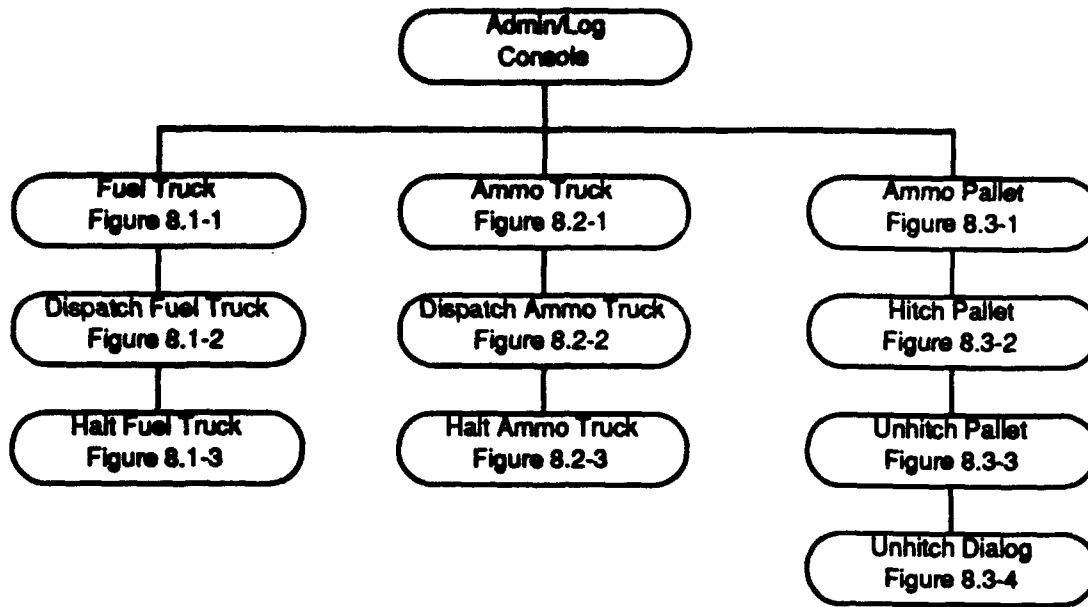


Figure A14 Admin/Log Console Screens Flow Diagram

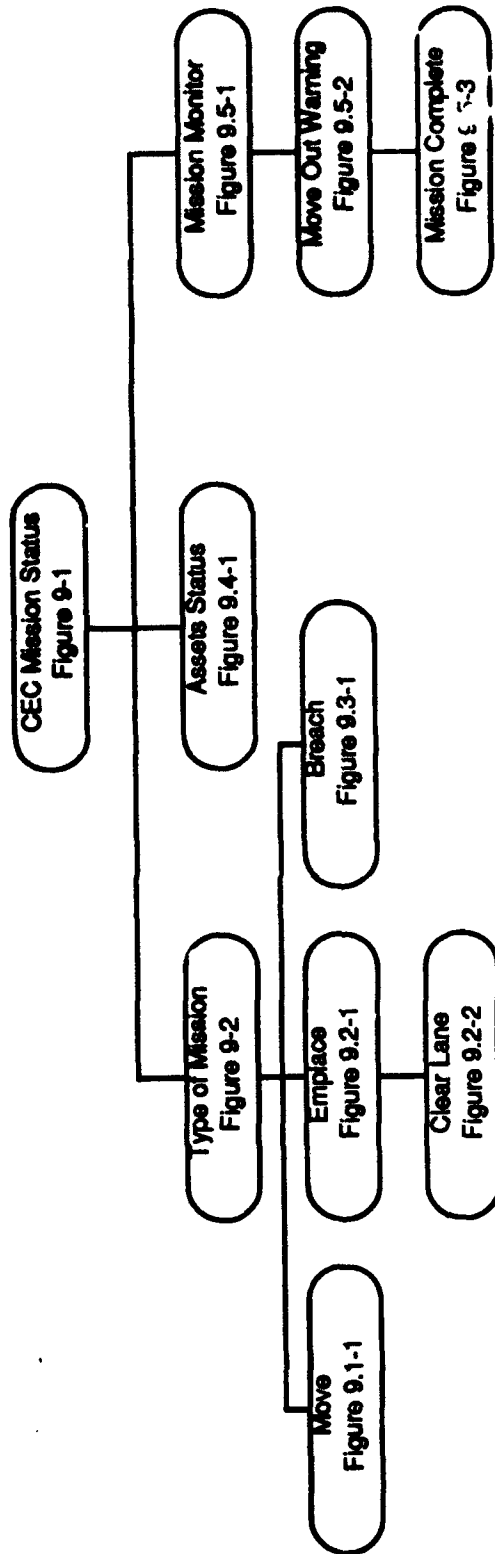


Figure A15 Combat Engineer Console Screens  
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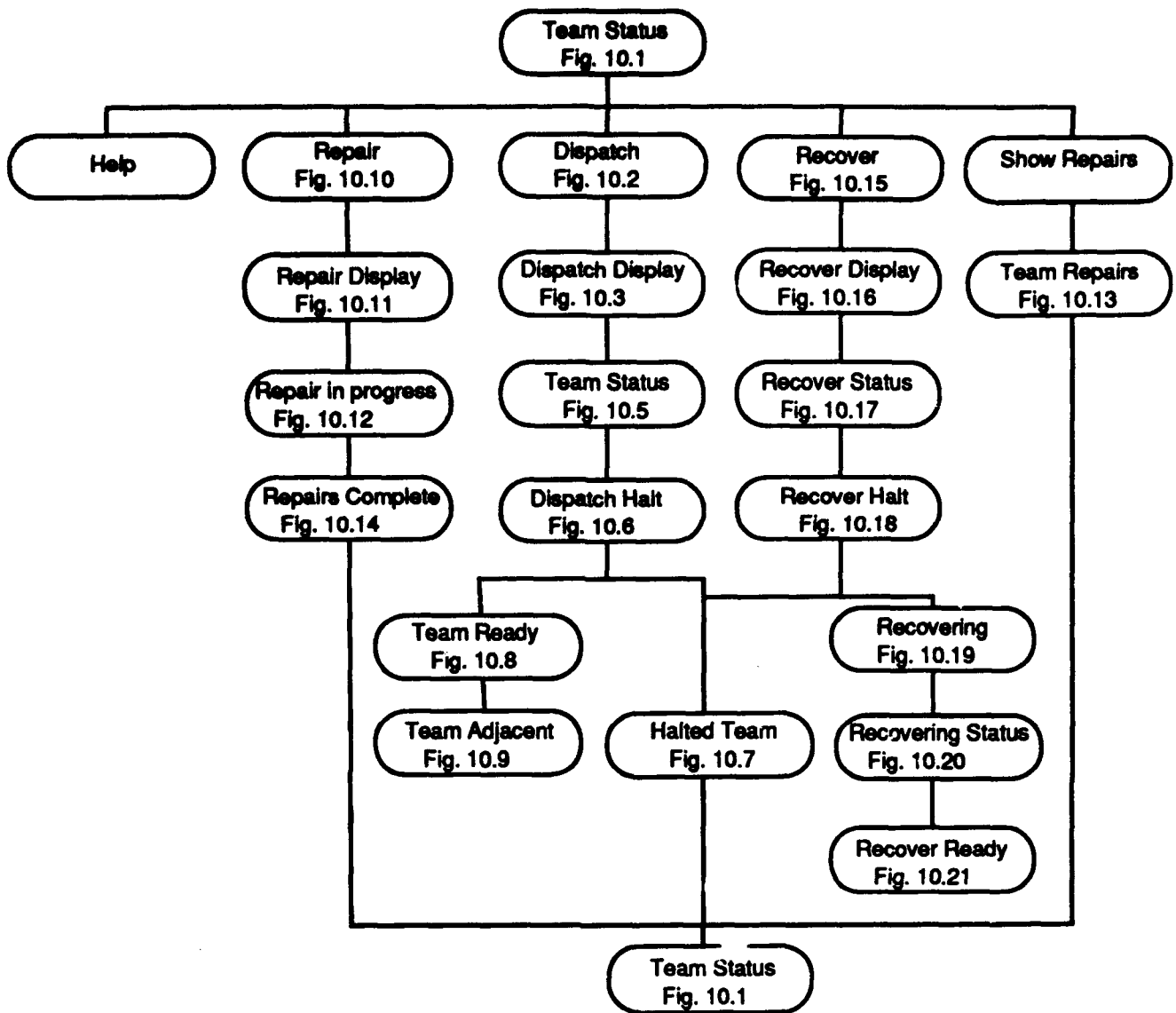


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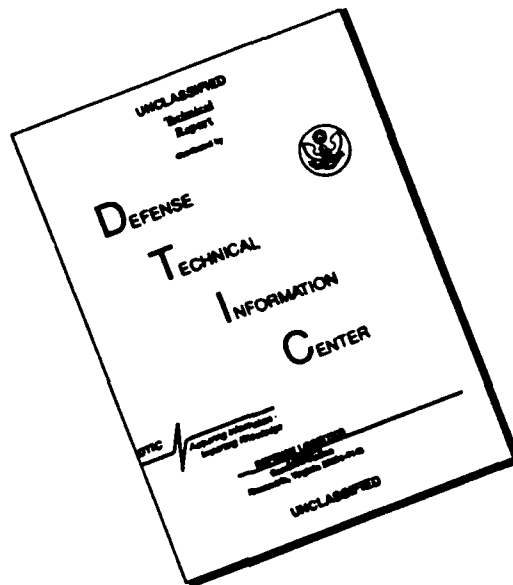
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