



# Air and Space Basic Course



## Learning USAF Doctrine Through Simulation

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***“Air & Space Warriors for the 21st Century”***

| Report Documentation Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |                                     |                                            | Form Approved<br>OMB No. 0704-0188          |                                    |
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| 13. SUPPLEMENTARY NOTES<br><b>2008 DoD M&amp;S (Modeling and Simulation) Conference, presentations held in Orlando, Florida on March 10 - 14, 2008, The original document contains color images.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                                     |                                            |                                             |                                    |
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| 15. SUBJECT TERMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                    |                                     |                                            |                                             |                                    |
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| a. REPORT<br><b>unclassified</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | b. ABSTRACT<br><b>unclassified</b> | c. THIS PAGE<br><b>unclassified</b> |                                            |                                             |                                    |



# OVERVIEW



Overview

Air and Space Basic Course Background

Expeditionary Airbase Simulation

Theater Airpower Visualization

Summary



# Air & Space Basic Course



- Corona identified need to overcome “Tribes” (career-fields) mentality for an “Airman” identity
- Basic course for newly-commissioned 2<sup>nd</sup> Lieutenants: 5-6 weeks at Maxwell (1998)
- Common officer (USAFA, OTS, ROTC commissioning sources) PME: leadership, teamwork, problemsolving, and physical conditioning
- Heavy focus on airpower basic warfighting doctrine at application level (wargaming)



# Squadron Officer College



- In 1999, Squadron Officer School (SOS) for Captains merged with Air and Space Basic Course (ASBC) for 2<sup>nd</sup> Lieutenants
- Squadron Officer College (SOC) provides administrative, curriculum development, and mission support to both schools
- Schools each have Commandants who focus on classroom instruction



# Air and Space Basic Course



## Expeditionary Airbase Simulation (EAS)

*“Air & Space Warriors for the 21st Century”*



# Expeditionary Airbase Simulation



- Expeditionary airbase “citybuilder” simulation concept in SOC in 2002
- SOC submitted ETTAP proposal to AETC in Fall 1996; approved December 2006
- BreakAway Ltd and KMS Inc went on contract in Jan 2007 for 10 month project
- Final deliverable sim & doc in Nov 2007
- EAS will debut in ASBC classrooms during Class 08D (May-Jun 07)



# EAS Concepts



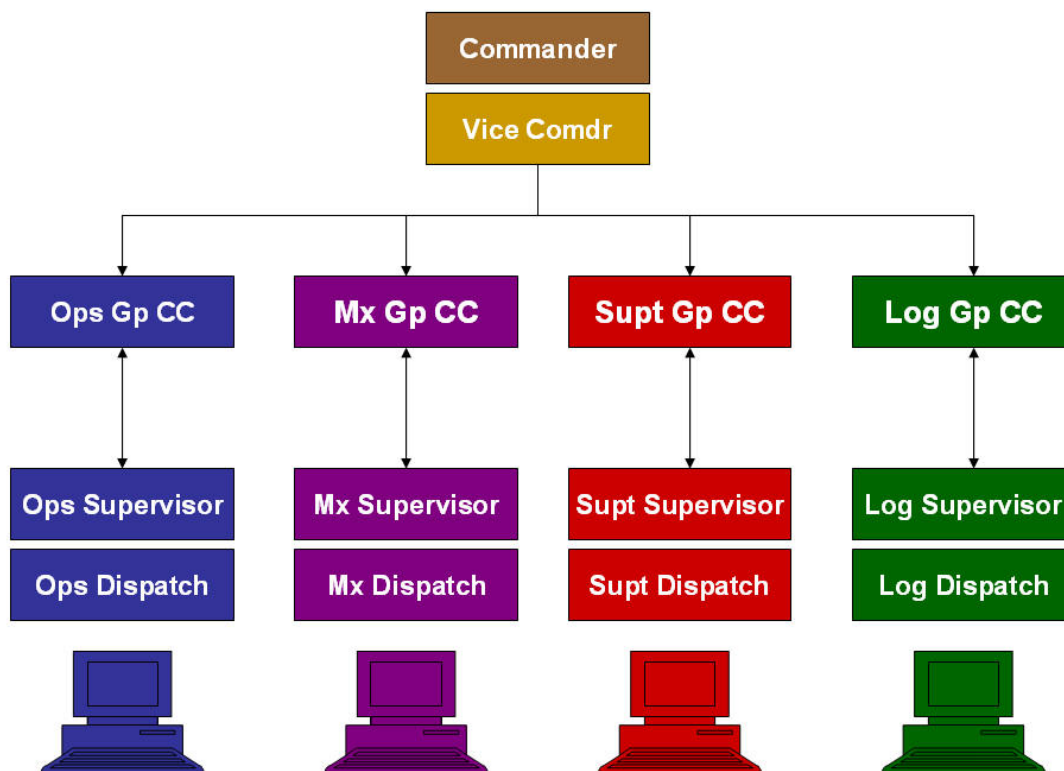
- First USAF simulation to focus on airbase or installation level (vs flight sim or AOC)
- Expeditionary airbase level helps show how each career field contributes to mission
- GWOT expeditionary airbases: 16 for OEF, 16 for OIF
- Students have better idea where they fit in and what their peers do
- Understand “moving parts” at airbase as groups and squadrons team together



# EAX STRUCTURE



Divide the flight into 5 teams: a base command section (2) and four functional groups of 3 students each in the following roles:

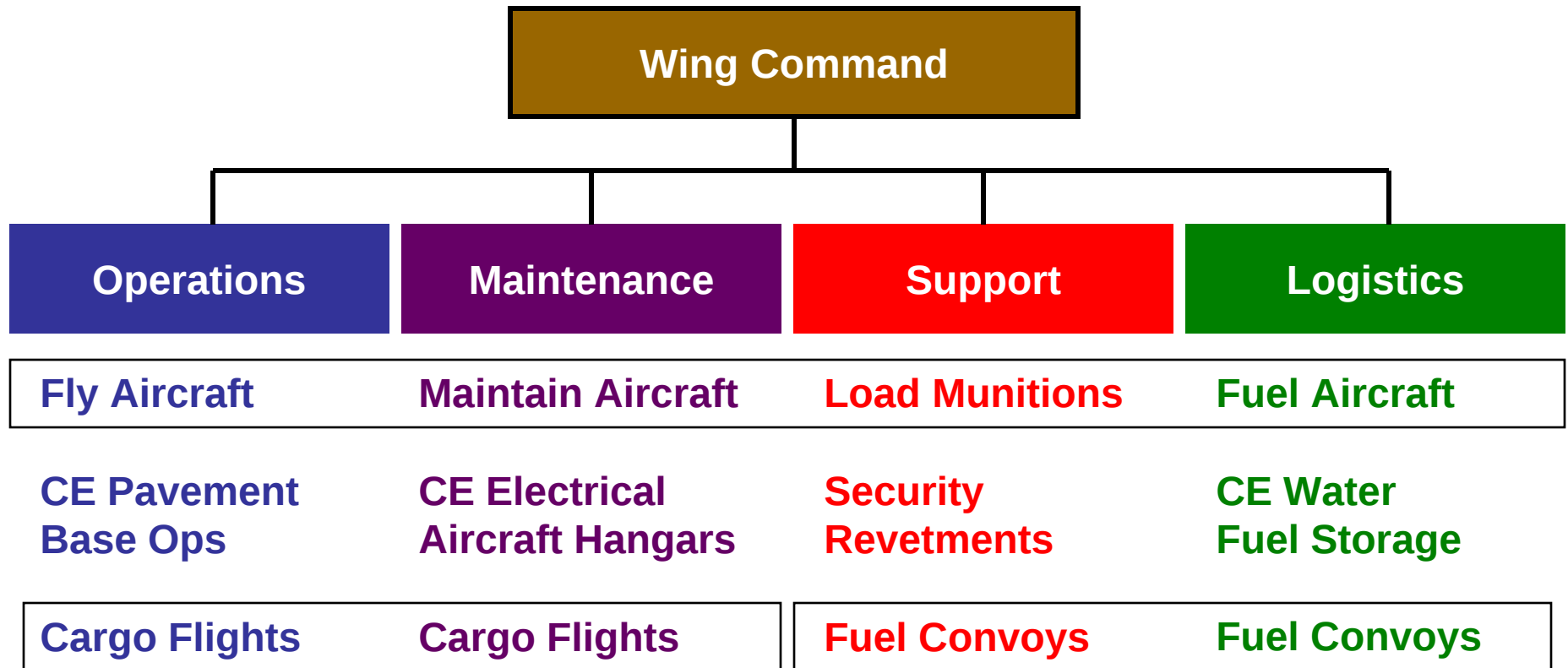




# GROUP ROLES



Org structure is arbitrary and not representative; used to distribute workload and keep each student group engaged throughout





# BASE CONFIGURATION



EAS

File Info Network Help Personnel 38 Const Supplies 100 Gasoline 2000 Water 3957 Food 2486 Power off Jet Fuel 0 Munitions 0 Spare Parts 0

Day 1 00:42

**Task Summary**

☒ Current Phase: Runway Prep  
☐ Next Phase: Open Air Base

| Tasks                                         |
|-----------------------------------------------|
| Unloading Area Paint (Unloading Area Upgrade) |
| Airfield Paint (Runway Upgrade)               |
| Airfield Lights (Runway Upgrade)              |
| Arresting Barrier (Runway Upgrade)            |
| Mobile Control Tower (Runway Upgrade)         |

Day 1 00:00 Medium enemy threat in area

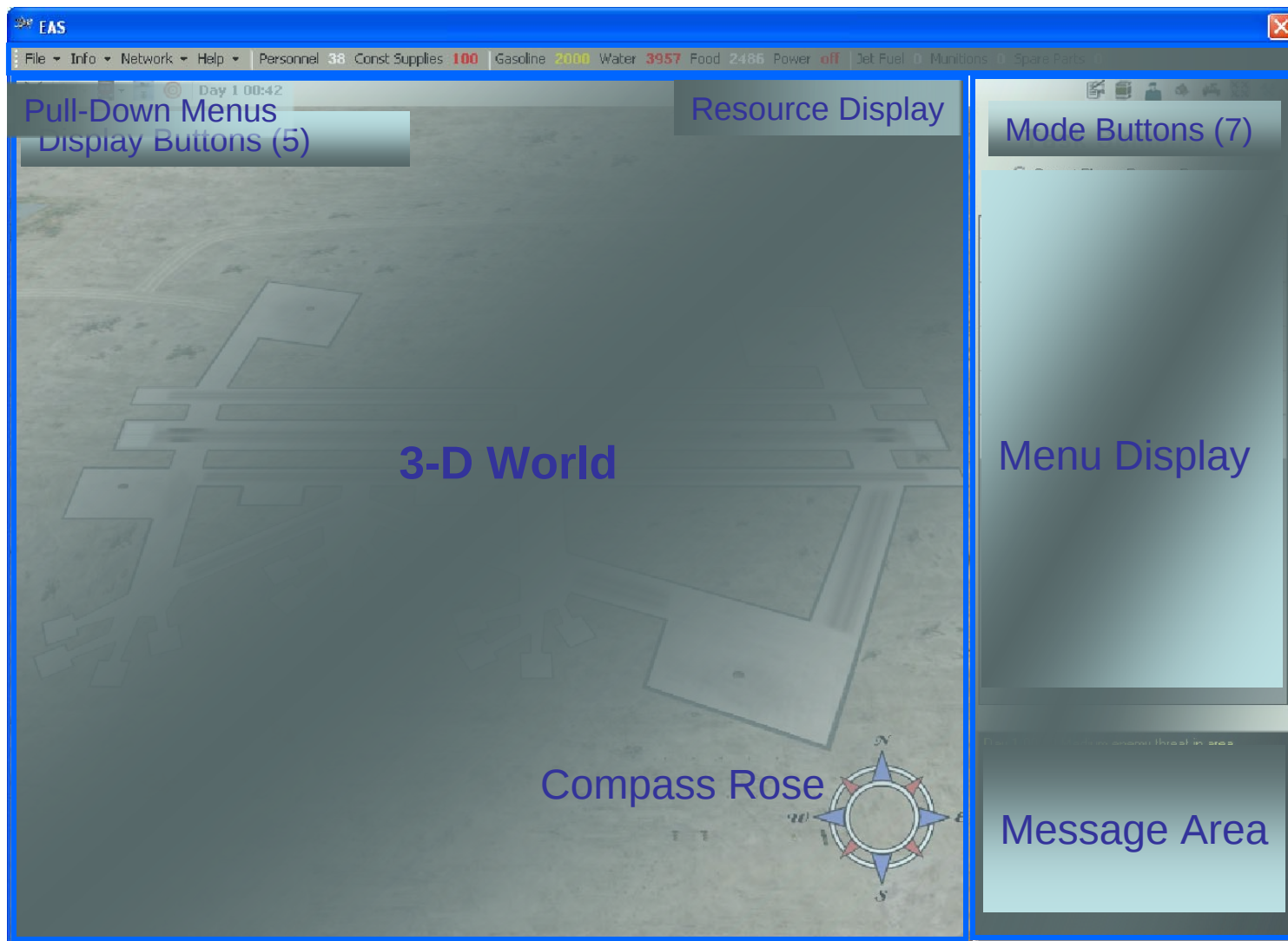
The map shows a base layout with the following labeled areas:

- Fuels Area
- Alert Area
- Runway
- Vehicle Parking
- Aircraft Parking
- Unloading Area

A compass rose is located in the bottom right corner of the map area.



# EAS INTERFACE





# EAS Objectives



- Flight is evaluated as an airbase team
  - Objectives for expeditionary airbase exercise developed from AFDD1-1
- ## Organizational Leadership Competencies
- Supervise Airmen
  - Accomplish Mission: Build up airbase and generate combat sorties
  - Manage Resources

Medical, hygiene, and recreation facilities help improve health & welfare levels.



# SUPERVISE AIRMEN



An expeditionary airbase is built up to support approximately 1100 Airmen for each fighter squadron-equivalent flying unit

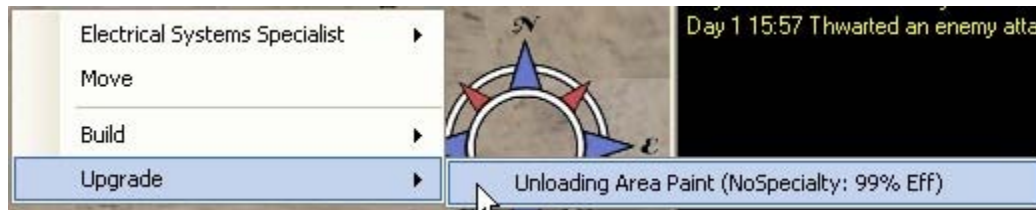
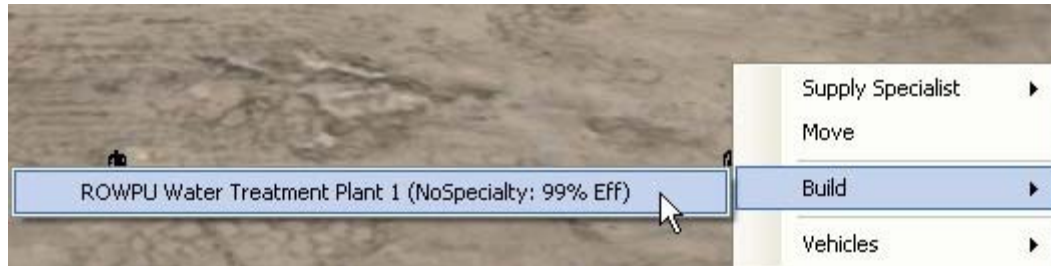
The lives and well-being of these Airmen are the responsibility of the airbase command staff

Simulated Airmen should be treated like real people -- care for basic needs, supervise work, and they will accomplish the mission

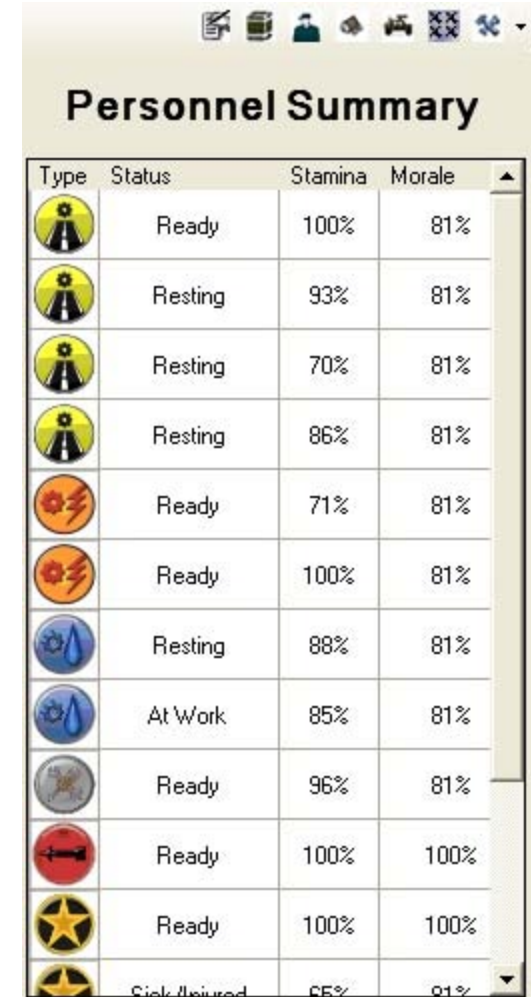
The EAX exercise: familiarize students with expeditionary airbases and practice LEADERSHIP and TEAMWORK



# SUPERVISE AIRMEN



**Airmen can build base facilities, upgrade structures, or drive vehicles**



The Personnel Summary window displays a list of personnel with their status, stamina, and morale. The window has a title bar with icons for file, print, zoom, and other functions. The table below shows the data for each personnel member.

| Type                                                                                  | Status       | Stamina | Morale |
|---------------------------------------------------------------------------------------|--------------|---------|--------|
|    | Ready        | 100%    | 81%    |
|    | Resting      | 93%     | 81%    |
|    | Resting      | 70%     | 81%    |
|    | Resting      | 86%     | 81%    |
|    | Ready        | 71%     | 81%    |
|    | Ready        | 100%    | 81%    |
|    | Resting      | 88%     | 81%    |
|    | At Work      | 85%     | 81%    |
|   | Ready        | 96%     | 81%    |
|  | Ready        | 100%    | 100%   |
|  | Ready        | 100%    | 100%   |
|  | Sick/Injured | 65%     | 91%    |



# SUPERVISE AIRMEN



Keep an eye on Stamina levels before Airmen get sick or injured (and not available for duty!)

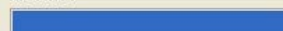
Personnel Name:

Security Forces Personnel 1

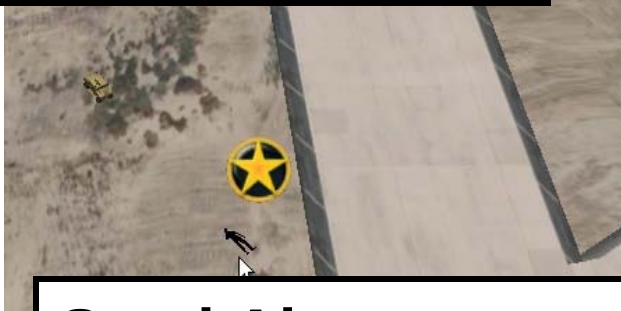
Specialty: Security

Status: Sick/Injured

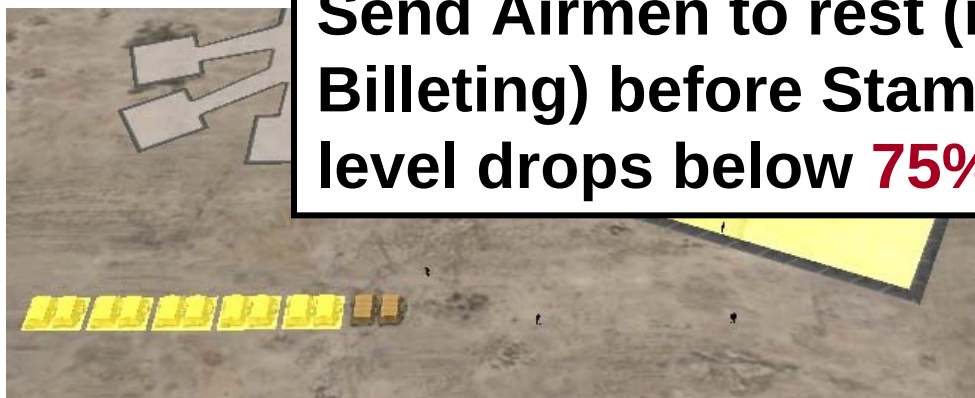
Morale:



Stamina:



Send Airmen to rest (need Billeting) before Stamina level drops below **75%**



## Personnel Summary

| Type | Status       | Stamina | Morale |
|------|--------------|---------|--------|
|      | Ready        | 100%    | 81%    |
|      | Resting      | 93%     | 81%    |
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|      | Ready        | 100%    | 100%   |
|      | Ready        | 100%    | 100%   |
|      | Sick/Injured | 65%     | 81%    |



# DEVELOP BASE



| Scoring                                                    |                       |                   |        |
|------------------------------------------------------------|-----------------------|-------------------|--------|
| Health/Welfare   Mission Readiness   Resource Expenditures |                       |                   |        |
| Event                                                      | Standard Completion   | Actual Completion | Points |
| Open Air Base                                              | Day 4 00:00           | not yet complete  | 20     |
| C2 Established                                             | Day 9 00:00           | not yet complete  | 20     |
| Establish Airbase                                          | Day 16 00:00          | not yet complete  | 20     |
| First Sortie                                               | Day 20 00:00          | not yet complete  | 20     |
| <b>Sorties Flown</b>                                       | 0                     |                   | 20     |
| Point Totals in RED are projected scores                   |                       |                   |        |
| Simulation End Time: Day 22 00:00                          |                       |                   |        |
| Time Remaining: 19 Days 05:29                              |                       |                   |        |
| SCORES                                                     | Health/Welfare        | 94                |        |
|                                                            | Mission Readiness     | 100               |        |
|                                                            | Resource Expenditures | 100               |        |
|                                                            | OVERALL               | 98                |        |

Mission Readiness is one of three evaluation areas for air base command.

Mission Readiness is measured by actual completion dates of force modules against tasked completion milestones.

Late completion of force modules loses mission points while early completion of force modules earns bonus points.

Sorties flown before scenario end also earn Mission Readiness points (more is better).



# DEVELOP BASE



The ultimate mission of the expeditionary airbase is to develop and sustain the capability to generate operational airpower sorties.

The Task Summary for each force module outlines the minimum essential requirements that must be accomplished quickly before moving to the next force module milestone.

Once all force modules are completed, the base will focus on Sortie Generation.

Each task requires **TEAMWORK** between all groups!



# DEVELOP BASE



## Task Summary

- Current Phase: Runway Prep
- Next Phase: Open Air Base

### Tasks

Unloading Area Paint (Unloading Area Upgrade)

Airfield Paint (Runway Upgrade)

Airfield Lights (Runway Upgrade)

Arresting Barrier (Runway Upgrade)

Mobile Control Tower (Runway Upgrade)

Electrical Systems Specialist

Move

Build

Upgrade

Unloading Area Paint (NoSpecialty: 99% Eff)

Day 1 15:57 Thwarted an enemy attack

Status: Functional

### Upgrades Built:

### Select an Upgrade:

Unloading Area Paint

Upgrade

HeavyConstructionVehicle

Move

Debris

Repair Debris ( Alert Area )

Repair Debris ( Fueling Area )

Repair Debris ( Runway Area )

Repair Debris ( Runway Area )

Repair Debris ( Unloading Area )

Repair Debris ( Vehicle Parking Area )

## Runway Upgrades



# DEVELOP BASE



## Build

- ROWPU (water)
- Billeting (one tent)

## Upgrade

- Vehicle Parking



### ROWPU Water Treatment Plant

**Status:** Under Construction

**Maintenance Status:**



CEPavementCnstr



CEWaterHVAC



CEWaterHVAC



CEElecPower



NoSpecialty



NoSpecialty



ROWPU Water  
Treatment Plant



Large Water  
Storage



Stabilization  
Lagoon



Landfill



Mobile Electrical  
Power System

The Task Summary only lists things you MUST do; some optional tasks will help preserve your force and improve your performance rating

# MANAGE RESOURCES



| Scoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
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| Health/Welfare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mission Readiness | Resource Expenditures                                                                                                                                                                                                                                                                                                                                                                                     |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <p><b><u>Cargo Flights</u></b></p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Number</th> <th style="text-align: center;">Penalty</th> </tr> </thead> <tbody> <tr> <td>C-130</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>C-17</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>C-5</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> |                   |                                                                                                                                                                                                                                                                                                                                                                                                           | Number | Penalty        | C-130                      | 0                 | 0   | C-17                  | 0   | 0              | C-5            | 0 | 0 | <p><b><u>Administrative Facilities</u></b></p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Number</th> <th style="text-align: center;">Bonus</th> </tr> </thead> <tbody> <tr> <td>GP Base Operations<br/>(no more than 3)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>TEMPER Admin<br/>(no more than 10)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Air Freight Terminal</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> |  |                     | Number | Bonus     | GP Base Operations<br>(no more than 3) | 0       | 0 | TEMPER Admin<br>(no more than 10) | 0 | 0 | Air Freight Terminal | 0 | 0 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number            | Penalty                                                                                                                                                                                                                                                                                                                                                                                                   |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
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| C-17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
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| GP Base Operations<br>(no more than 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| TEMPER Admin<br>(no more than 10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Air Freight Terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <p><b><u>Base Power</u></b></p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Number</th> <th style="text-align: center;">Penalty</th> </tr> </thead> <tbody> <tr> <td>Days Offline (after Day 3)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                           | Number | Penalty        | Days Offline (after Day 3) | 0                 | 0   |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number            | Penalty                                                                                                                                                                                                                                                                                                                                                                                                   |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Days Offline (after Day 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <p><b><u>Fuel Convoy</u></b></p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Number</th> <th style="text-align: center;">Penalty</th> </tr> </thead> <tbody> <tr> <td>Occurrences</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <p>Penalty occurs if fuel convoy arrives but can not unload all fuel due to storage limits</p>                                                                                                           |                   |                                                                                                                                                                                                                                                                                                                                                                                                           | Number | Penalty        | Occurrences                | 0                 | 0   |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number            | Penalty                                                                                                                                                                                                                                                                                                                                                                                                   |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Occurrences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <p><b><u>Personnel Teams</u></b></p> <table style="width: 100%;"> <thead> <tr> <th></th> <th style="text-align: center;">Number</th> <th style="text-align: center;">Penalty</th> </tr> </thead> <tbody> <tr> <td>On Base:</td> <td style="text-align: center;">11</td> <td></td> </tr> <tr> <td>Teams over 36:</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Teams over 44:</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>   |                   |                                                                                                                                                                                                                                                                                                                                                                                                           | Number | Penalty        | On Base:                   | 11                |     | Teams over 36:        | 0   | 0              | Teams over 44: | 0 | 0 | <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Scoring</p> <table style="width: 100%;"> <tbody> <tr> <td style="width: 70%;">Base Resource Score</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Penalties</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Bonuses</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> </div>                                                                                                                                                                                                                               |  | Base Resource Score | 100    | Penalties | 0                                      | Bonuses | 0 |                                   |   |   |                      |   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Number            | Penalty                                                                                                                                                                                                                                                                                                                                                                                                   |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| On Base:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 11                |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Teams over 36:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Teams over 44:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                 | 0                                                                                                                                                                                                                                                                                                                                                                                                         |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Base Resource Score                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 100               |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Penalties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                 |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Bonuses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                 |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <p style="font-size: 24pt; font-weight: bold;">SCORES</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   | <table style="width: 100%;"> <tbody> <tr> <td style="width: 70%;">Health/Welfare</td> <td style="text-align: center;">94</td> </tr> <tr> <td>Mission Readiness</td> <td style="text-align: center;">100</td> </tr> <tr> <td>Resource Expenditures</td> <td style="text-align: center;">100</td> </tr> <tr> <td><b>OVERALL</b></td> <td style="text-align: center;"><b>98</b></td> </tr> </tbody> </table> |        | Health/Welfare | 94                         | Mission Readiness | 100 | Resource Expenditures | 100 | <b>OVERALL</b> | <b>98</b>      |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Health/Welfare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 94                |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Mission Readiness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 100               |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| Resource Expenditures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100               |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |
| <b>OVERALL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>98</b>         |                                                                                                                                                                                                                                                                                                                                                                                                           |        |                |                            |                   |     |                       |     |                |                |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |        |           |                                        |         |   |                                   |   |   |                      |   |   |

Expenditure of Resources is one of three evaluation areas for air base command.

Numerous resource areas are measured for scoring.

Resource Expenditures are measured by tasking of cargo flights and fuel convoys.

Maintaining constant base power and lifting in an economical number of teams helps maximize score.

Penalties are assessed for overuse of large airlifters, power outages, and too many teams.

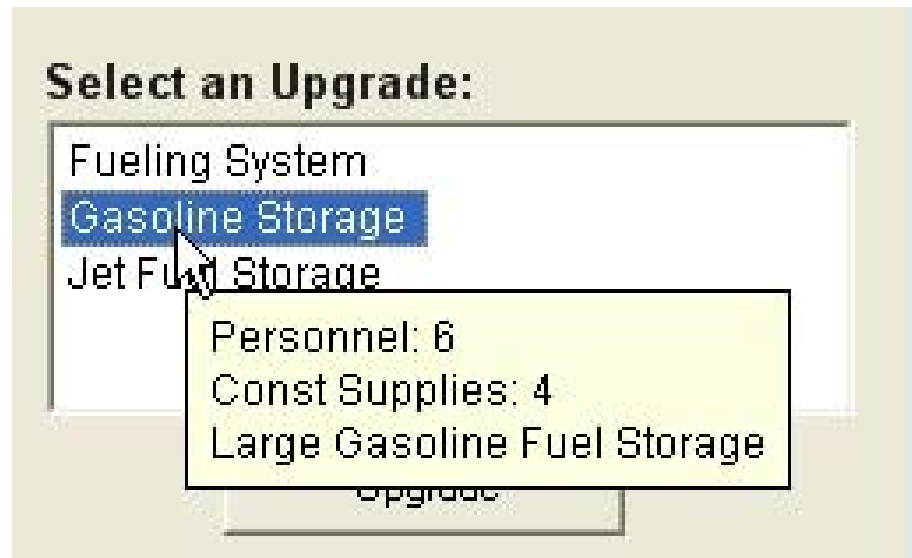


# MANAGE RESOURCES



Every build or upgrade expends resources—maximize efficiency and economy

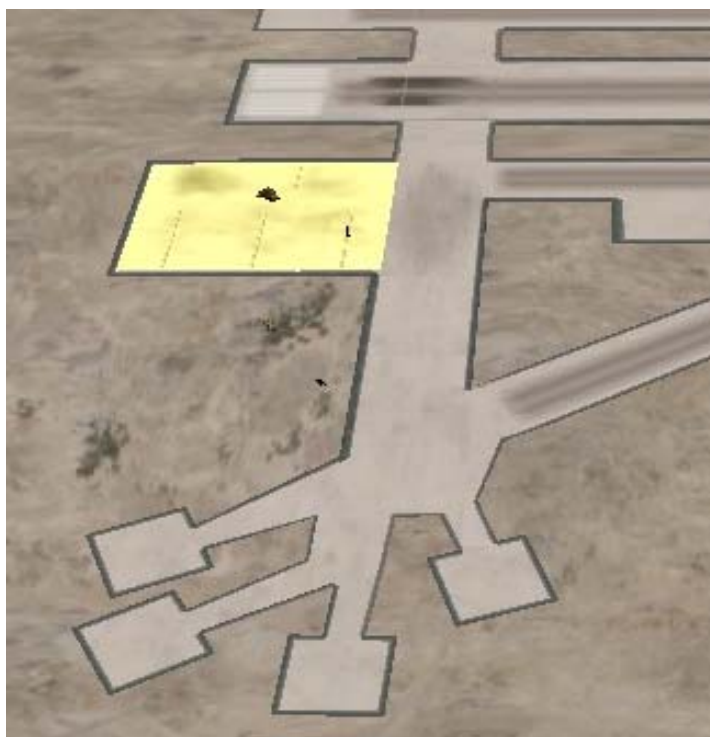
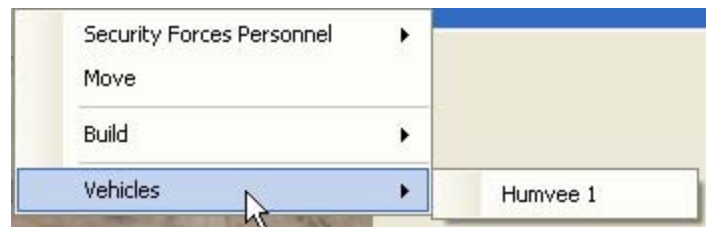
During the initial Runway Prep phase airlifters can't land yet to bring in more Personnel or Construction Supplies



Maintain sufficient resources to complete the Task Summary then quickly move to the next force module!

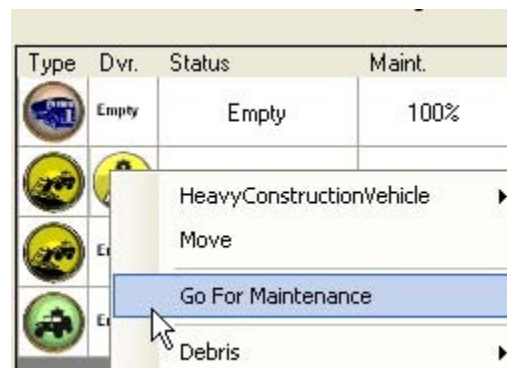


# MANAGE RESOURCES



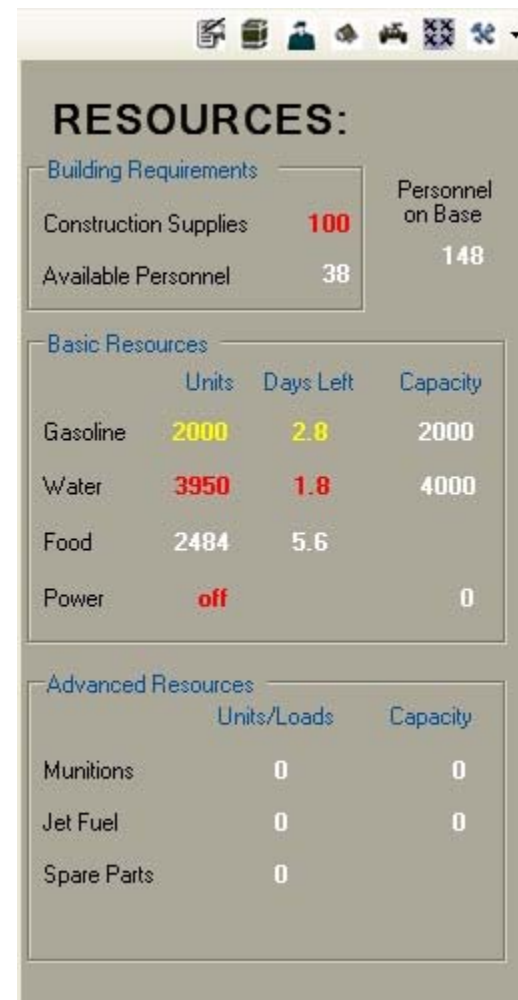
**Vehicle Summary**

| Type | Dvr.  | Status       | Maint. |
|------|-------|--------------|--------|
|      | Empty | Empty        | 100%   |
|      |       | Ready        | 58%    |
|      | Empty | Under Repair | 53%    |
|      | Empty | Empty        | 64%    |



Vehicle context menu options:

- HeavyConstructionVehicle
- Move
- Go For Maintenance
- Debris



**RESOURCES:**

| Building Requirements |     |  | Personnel on Base |
|-----------------------|-----|--|-------------------|
| Construction Supplies | 100 |  | 148               |
| Available Personnel   | 38  |  |                   |

| Basic Resources |       |           |          |
|-----------------|-------|-----------|----------|
|                 | Units | Days Left | Capacity |
| Gasoline        | 2000  | 2.8       | 2000     |
| Water           | 3950  | 1.8       | 4000     |
| Food            | 2484  | 5.6       |          |
| Power           | off   |           | 0        |

| Advanced Resources |             |          |
|--------------------|-------------|----------|
|                    | Units/Loads | Capacity |
| Munitions          | 0           | 0        |
| Jet Fuel           | 0           | 0        |
| Spare Parts        | 0           |          |



# MANAGE RESOURCES



**Supply Flight**

| <b>PERSONNEL:</b> |                                | <b>RESOURCES:</b>     |                                  | <b>VEHICLES:</b>   |                                |
|-------------------|--------------------------------|-----------------------|----------------------------------|--------------------|--------------------------------|
| Specialty         |                                |                       | Units/Loads                      |                    |                                |
| CEPavementCnstr   | <input type="text" value="1"/> | Personnel             | <input type="text" value="1"/>   | Heavy Construction | <input type="text" value="1"/> |
| CEElecPower       | <input type="text" value="1"/> | Construction Supplies | <input type="text" value="10"/>  | Munition Truck     | <input type="text" value="1"/> |
| CEWaterHVAC       | <input type="text" value="1"/> | Food                  | <input type="text" value="100"/> | Humvee             | <input type="text" value="1"/> |
| ACMaintenance     | <input type="text" value="1"/> | Munitions             | <input type="text" value="10"/>  | Jet Fuel Truck     | <input type="text" value="1"/> |
| Munitions         | <input type="text" value="1"/> | Spare Parts           | <input type="text" value="10"/>  | Gas Truck          | <input type="text" value="1"/> |
| Security          | <input type="text" value="1"/> | Water (Gallons)       | <input type="text" value="10"/>  |                    |                                |
| Supply            | <input type="text" value="1"/> |                       |                                  |                    |                                |
| Aviation          | <input type="text" value="1"/> |                       |                                  |                    |                                |

Weight: 82079/169000  
Personnel: 73/150

OK

**Convoy Request**

Request a Gas Convoy.

OK

**Convoy Request**

Request a Jet Fuel Convoy.

OK

When tasking airlifters, avoid using C-5s unless absolutely necessary. Don't bring in an excessive number of work teams (36 or less is ideal)



# MISSION ACCOMPLISHED



