3.0 FUNCTIONS RELATED TO TECHNICAL OPERATIONS

3.1 Initiation Procedures

JEPES is launched from the JOPES System Level Navigation (JNAV) menu by selecting the **{Civil Engineering (JEPES)}** button under Sustainment Modelling. It may also be launched from the JEPES Icon on the GCCS desktop. After JEPES is initiated, the user is asked to select a security classification. Once the classification is selected, the JEPES Main Menu appears. Refer to Paragraph 5.0, User Terminal Processing Procedures for information on running JEPES. JEPES will display an error message if the user is not a valid JEPES user.

3.2 Input Requirements

JEPES operates from ORACLE tables. Data are loaded into ORACLE tables from four sources: the JOPES Core database, Services' RPI Asset data, JEPES tables and keyboard entries.

3.2.1 Frequency of Input

RPI data from the Services is updated on a yearly basis. Other input is on an as-required basis by the user. The criteria for order of input is discussed in Paragraph 5.0, User Terminal Processing Procedures.

3.2.2 Origin

JEPES input is from JEPES ORACLE tables and keyboard entries. The ORACLE tables are built on a relational structure. Processes in JEPES, especially the query functions (insert, edit, and delete), usually performs cross-checks between two or more ORACLE tables to ensure the accuracy of input.

3.2.2.1 Origin of Input

Table 3.2.2.1-1, Data Sources, lists the source, the text file name or ORACLE table, and JEPES ORACLE table(s) in which information resides. The "D" or "I" after the name of the source or text file indicates whether this information is plan-dependent or -independent. This information is extremely useful when adding a new OPLAN.

Table 3.2.2.1-1. Data Sources

Source	ORACLE Table or Text File	JEPES Table
GCCS/TUCHA (D)	Unit_Type	Unit_Equipment
		JEPES_Unit_Type
	Unit_Type_Cargo_4th	Unit_Equipment
GCCS/TPFDD (D)	Oplan_Force_Rqmt	Deployed_Eng_Sensitive_Unit
		JEPES_Unit_Type
	Oplan_Force_Rqmt_Loc	Deployed_Eng_Sensitive_Unit
GCCS/Other (I)	Geographic_Location	Deployed_Eng_Sensitive_Unit
		Geoloc_Tab
GCCS/RPI (I) (Services)	Combined_Asset	Asset
		War_Damage_Factor
JEPES/Rebasing Function (D)		Base_Complex
		Base_Location
		Base_Fac_Constr_Policy
		Backup_Supply
JEPES/Existing OPLANs (I)		Component
		Engineering_Unit_Capability
		Equipment_Planning_Factor
		JEPES_Equipment_Type
		Facility_Category
		Facility_Component
		Facility_Requirement
		General_Planning_Factor
JEPES/CINC Engineers (D)		Engineering_Support
		Facility_Category_Substitute
		Plan_Fac_Construction_Policy
		Planner_Input_Requirement
JEPES/Run-Time Options (D)		Attrition_Factor
		Climatic_Factor
		Operation
		Phase_In_Efficiency
		Sill_Substitution
		Time_Period

A listing and description of the inputs, along with the destination ORACLE tables, are provided below.

3.2.2.1.1 GCCS/TUCHA Data

a. Unit_Type Table. This table identifies the type of unit and high-level passenger (PAX) and cargo information for that unit type. This information is rolled up from the unit type's Table of Organization and Equipment (TOE). Detail is provided for Level II only; i.e., total bulk, oversize, or outsize cargo in short tons (STONs) and measurement tons (MTONs), total bulk POL, etc. Table 3.2.2.1.1-1, GCCS Unit_Type Table, shows the relationship between the GCCS Unit_Type table and the JEPES tables.

Table 3.2.2.1.1-1. GCCS Unit_Type Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Unit_Type	Unt_Cd	JEPES_Unit_Type	UTC
	Svc_Cd		Service_Code
	Unt_Abbrd_Nm		Unit_Name
	Unt_Authd_Wrti_Prsl_ Cqy		Authorized_ Personnel
	Unl_Cd		ULC
	Svc_Cd	Unit_Equipment	Service_Code

b. Unit_Type_Cargo_4th Table. This table identifies Level IV cargo information for a type of unit. At this level of detail, cargo information is defined down to the type of item; i.e., M1A1 Main Battle Tank, HUMMV. This includes length, width, height, and weight (STONs and MTONs to the tenth). **Note:** Within each item type, there may be more than one actual item. Table 3.2.2.1.1-2, GCCS Unit_Type_Cargo_4th Table, shows the relationship between the GCCS Unit_Type_Cargo_4th table and the JEPES tables.

Table 3.2.2.1.1-2. GCCS Unit_Type_Cargo_4th Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Unit_Type_Cargo_4th	Unt_Cd	Unit_Equipment	UTC
	Unt_Cgo_Ty_Itm_Cqy		Equipment_Piece_ Count
	Unt_Eqt_Id		Equipment_ Identifier_Code

3.2.2.1.2 GCCS/TPFDD Data

a. Oplan_Force_Rqmt Table. This table defines an OPLAN's requirement for forces by Op_Mvtrqt_Id [Unit Line Number (ULN)]. The ULN is a unique, mandatory identifier for each OPLAN-specific requirement's force record. In addition to the ULN, each force record is assigned a Unt_Cd [Unit Type Code (UTC)], which is a national (generic) organization of soldiers with personal and unit equipment; i.e., a Light Infantry Company. A ULN force requirement is "sourced" when assigned an actual unit, represented by a Opfrq_Un_Id [Unit Identification Code (UIC)]; i.e., 3d Bn, 1st Bde, 29th Infantry Division. For organization/sizing purposes, it helps to think of a UTC or UIC as an organization that is assigned a "Commander." Table 3.2.2.1.2-1, GCCS Oplan_Force_Rqmt Table, shows the relationship between the GCCS Oplan_Force_Rqmt table and the JEPES tables.

Table 3.2.2.1.2-1. GCCS Oplan_Force_Rqmt Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Oplan_Force_ Rqmt	Op_Mvtrqt_Id	Deployed_Eng_ Sensitive_Unit	Force_Rqmt_Number
			Fragmentation_Code
			Insert_Code
	Unt_Cd		UTC
	if Op_Rtg_Trnpn_Src_Cd = 'C' or 'D' or 'H' or 'W' then Opfrq_Auth_Prsl_Cqy else Opfrq_Norgnc_Trnpn_Prsl_Cqy		Troop_Strength
	Svc_Cd		Service_Code
	Unl_Cd		ULC
	Op_Mvtrqt_Dest_Rdd_Cqy		Destination_Arrival_ Date
	Op_Mvtrqt_POD_Lad_Cqy		POD_Arrival_Date
	Opfrq_Un_Id		UIC
	Opfrq_Prvdng_Org_ Src_Cd	JEPES_Unit_Type	Self Sustainability Code

b. Oplan_Force_Rqmt_Loc Table. This table defines the preferred mode, source, and location information for each stage of an Oplan_Force_Rqmt's journey. Each stage represents travel from a location, for example to Port of Debarkation (POD) by "air" mode. Table 3.3.2.2.1.2-2, GCCS Oplan_Force_Rqmt_Loc Table, shows the relationship between the GCCS Oplan_Force_Rqmt_Loc table and the JEPES tables.

Table 3.2.2.1.2-2. GCCS Oplan_Force_Rqmt_Loc Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Oplan_Force_ Rqmt_Loc	if Op_Rtg_Trnpn_Loc_Cd = 'A' then Glc_Cd	Deployed_Eng_ Sensitive_Unit	Originating_Geoloc
	if Op_Rtg_Trnpn_Loc_Cd = 'J' then Glc_Cd		POD_Geoloc
	if Op_Rtg_Trnpn_Loc_Cd = 'N' then Glc_Cd		Destination_Geoloc
	if Op_Rtg_Trnpn_Loc_Cd = 'E' then Glc_Cd		POE_Geoloc

3.2.2.1.3 GCCS/Other Data

a. Geographic_Location Table. This table represents a unique designation for a place of military significance in the world. Table 3.2.2.1.3-1, GCCS Geographic_Location Table, shows the relationship between the GCCS Geographic_Location table and the JEPES tables. Geoloc_Tab is a JEPES view of the GCCS Geographic_Location table, therefore if the Geographic_Location table gets updated, the JEPES Geoloc_Tab view is automatically updated.

Table 3.2.2.1.3-1. GCCS Geographic_Location Table

GCCS TABLE	GCCS DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Geographic_Location	Glc_Cd	Geoloc_Tab (JEPES View)	Geoloc_Code
	Glc_Nm		Geoloc_Name
	Cy_St_Cd		Cyst_Cd
	Int_Cd		Geoloc_Type_Cd
	Glc_Ltcn		Geoloc_Lat
	Glc_Lncn		Geoloc_Lon
	Glc_Nm	Deployed_Eng_ Sensitive_Unit	Destination_ Geloc_Name

3.2.2.1.4 RPI/Combined Asset Data

a. Combined_Asset Table. This table represents the combined assets from the Army, Navy and Air Force. Table 3.2.2.1.4-1, RPI Combined_Asset Table, shows the relationship between the RPI Combined_Asset table and the JEPES tables.

Table 3.2.2.1.4-1. RPI Combined_Asset Table

RPI TABLE	RPI DATA ELEMENT	JEPES TABLE	JEPES DATA ELEMENT
Combined_Asset	Geloc_Cd	Asset	Geloc_Cd
	DOD_Fac_Cat_Cd		DOD_Fac_Cat_Cd
	Facility_Quantity		Assets_On_Hand
	Geloc_Cd	War_Damage_Factor	Geoloc_Code
	DOD_Fac_Cat_Cd		DOD_Fac_Cat_Cd

The user can access the JEPES Home Page to retrieve RPI's Combined Asset export file. The export file must be saved in the user's *rpi* subdirectory (i.e. *$HOME/jepes/rpi*) before importing into the JEPES database. Refer to Paragraph 5.3.1, Utilities, for more information on importing export files.

3.2.2.1.5 Rebasing

Rebasing occurs when the user wants to split a base, create a new base or delete a base. For more information on Rebasing, refer to Paragraph 5.3.2.1.1, Updating Base_Complex and Base_Location Tables (Rebasing).

3.2.2.1.6 Existing OPLAN

The JEPES Independent tables can be updated by importing the OPLAN Independent export file. This export file resides on the JEPES Home Page and must be saved in the user's *oplan* subdirectory (i.e. $*HOME/jepes/oplan*) before importing into the JEPES database. Some of the OPLAN Dependent export files, also reside on the JEPES Home Page. Other OPLAN Dependent export files can be obtained by contacting the JEPES TDBM at the NMCC, see Paragraph 5.1.1, JEPES Technical Database Manager (TDBM). Refer to Paragraph 5.3.1, Utilities, for more information on importing export file.

3.2.2.1.7 New OPLAN

The following are steps for updating the JEPES database for a new OPLAN. Another option to adding a new OPLAN is to use data from an existing OPLAN, in which case not all of these steps will need to followed
Note: Data from only one OPLAN at a time can be used when running JEPES.

1. **Update run-time parameters**

   This updates the JEPES tables that have OPLAN ID.

Go to Reports/Queries -> Ad Hoc option. The user should either type:

@$JEPES_HOME/load/reset_op (uses the previous OPLANs run-time parameters)

or

@$JEPES_HOME/load/init_op (initializes the run-time parameters)

and then enter the new OPLAN ID when prompted.

2. **Import the Independent JEPES tables**

JEPES Home Page will contain an export file of the JEPES Independent tables. The user needs to store the file in *$HOME/jepes/oplans*. Then, execute the Export Independent option in the Utilities function. See Paragraph 5.3.1.3, Import Independent, for more details.

3. **Extract the TPFDD and TUCHA data**

See Paragraphs 5.3.1.8, Extract TPFDD, and 5.3.1.9, Extract TUCHA, for more information.

4. **Perform rebasing (Update the Base Complex and Base Location tables)**

Add new BCNs to the Base_Complex table and assign a particular geoloc to be the primary geoloc and then add the secondary geolocs for that base to the Base_Location table.

The following are recommendations for rebasing:

a. Create a new base for each country in the Deployed_Eng_Sensitive_Unit table.

b. Add each Destination Geoloc from Deployed_Eng_Sensitive_Unit table to the Base_Location table.

c. Assign the service with the highest troop strength from the Deployed_Eng_Sensitive_Unit Table be the Base Owner.

For more information on Rebasing, refer to Paragraph 5.3.2.1.1, Updating Base_Complex and Base_Location Tables (rebasing).

5. **Update the Deployed_Eng_Sensitive_Unit table**

Execute the option in the JEPES Database Maintenance Menu to update the Deployed_Eng_Sensitive_Unit tables. See Paragraph 5.3.2.3, Update JEPES tables, for more information.

6. **Extract the Combined Asset data**

Extract the Combined Asset data to update the Asset and War Damage Factor tables. See Paragraph 5.3.1.11, Extract Combined Asset, for more information.

7. **Update the Engineering_Support, Plan_Fac_Construction_Policy and Planner_Input_Requirements tables**

Update the tables with the new BCNs (in Step 4). Refer to Appendix D, JEPES Data Element Dictionary, for more information on these tables.

3.2.2.1.8 Reindexing

The user should perform reindexing when the performance slows down significantly. Reindexing will drop and recreate the JEPES indices. The indices improve performance when retrieving and updating the JEPES tables.

To reset the indices the user should do the following:

a. Go to Reports/Queries -> Ad Hoc option and type:

@$JEPES_HOME/load/reindex

3.2.2.1.9 Keyboard Input

In addition to data loaded into ORACLE tables at the initialization phase, data in major ORACLE tables can be changed by the utilization of the Database Maintenance function of JEPES. Paragraph 5.3.2, Database Maintenance, discusses how to update the tables.

Input data is also required when operating various functions of JEPES. In some cases, the user is asked to provide input to control the program. In other cases, the user is asked to define such data values as engineer phase-in efficiency and/or skill substitution parameters.

3.2.2.2 Downloading WWMCCS Text Files

The functionality is still available to download the WWMCCS text files even though the capability to create WWMCCS text files no longer exists. This function is kept online for the use of pre-existing WWMCCS text files only. For more information on downloading WWMCCS text files, refer to Appendix G, Functions Available Outside of JEPES.

3.2.3 Input Format

See Appendix D, Data Element Dictionary, for a complete structure description of the input.

3.3 Output Requirements

3.3.1 Output Format

The output format for reports and graphs is listed according to function area in Table 3.3.1-1, JEPES Outputs.

Table 3.3.1-1. JEPES Outputs

Function	Tabular	Graphic
TPFDD Extract	Extract TPFDD Status TPFDD Rejected Records	
Database Analysis	Database Analysis Verification	
Requirements Generator	Facility Requirements	Base Population Data Time-Phased Requirements Data Time-Phased Population Growth
Requirements Analysis	Asset-Satisfied Requirements Asset-Unsatisfied Requirements Construction Requirements Satisfied Construction Requirements Unsatisfied Construction Requirements	
Support Functions	Non-Unit Cargo Shipment Requirements *logsafe.Txt* (text file) *lsa.Txt* (text file)	Percentage Forces Sustainable Minimum Percent Subelement Available Percentage of Subelement Available Over Time
Report/Queries	Facility Requirements Asset-Satisfied Requirements Asset-Unsatisfied Requirements Construction Requirements Satisfied Construction Requirements Unsatisfied Construction Requirements	Base Population Data Time-Phased Requirements Data Time-Phased Population Growth

3.3.1.1 TPFDD Extract Report

The TPFDD Extract function under the Utilities function produces a TPFDD reject file for a particular OPLAN.

Figure 3.3.1.1-1, Extract TPFDD Status Report, shows an example of a number of records inserted into the Deployed_Eng_Sensitive_Unit table and a number of rejected records with reasons.

The Deployed_Eng_Sensitive_Unit (DESU) table has been updated

4847 initial records were inserted into the DESU table

NOTE: The initial records do NOT include any records from the GCCS tables with null values in the fields related to the movement requirement's ID, unit type code (UTC), authorized personnel, service code, unit level code (ULC), required delivery date (RDD) at the destination, or latest arrival date (LAD) at the port of debarkation (POD).

They also do NOT include any records with providing organization codes of I, K, L, O, R, S, X, 1, or 0, or parent identification codes of A, P, or X.

Of these, 338 records were rejected, including:
0 with POD Arrival dates of 999
0 with invalid Service Codes (not A, F, J, M, N or P)
0 with invalid Fragmentation Codes (I or O)
0 with invalid Insert Codes (I or O)
152 with Troop Strengths of 0
0 with blank Destination GEOLOCs
93 cargo records

The rejected records can be found in the file 120AI.rej

Figure 3.3.1.1-1. Extract TPFDD Status Report

Figure 3.3.1.1-2, TPFDD Rejected Records Report, shows an example of a list of TPFDD records that were rejected by the TPFDD Extract function. The file also includes a reason why the record was rejected.

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BSE_CMPLX_NBR DEST FORCE F I UTC   DESTINATION_ARRIVAL_DATE POD_ POD_ARRIVAL_DATE ORIG POE_ TROOP_SEQUENCE_NUMBER TROOP_STRENGTH ULC
------------- ---- ----- - - ----- ------------------------ ---- ---------------- ---- ---- --------------------- -------------- ---
UIC    S DESTINATION_GELOC_NA REJECT_REASON
------ - ------------------- ------------------------------
            0      2CC0C     CTUTL                          5                     4                                 0              0 NSL
WS2EAA A                      Troop Strength of 0

            0      2GFHC     CTUTL                          5                     4                                 0              0 NSL
WS2BAA A                      Troop Strength of 0

            0      PCC0C     CTUTL                          5                     4                                 0              0 NSL
WS2EAA A                      Troop Strength of 0

            0      PGFHC     CTUTL                          5                     4                                 0              0 NSL
WS2BAA A                      Troop Strength of 0

            0      TAT0C     CTUTL                          5                     4                                 0              0 NSL
WS2EAA A                      Troop Strength of 0

            0      TJQHC     CTUTL                          5                     4                                 0              0 NSL
WS2BAA A                      Troop Strength of 0

            0      2CA1C A 0 CTUTL                          5                     4                                 0              0 NSL
WD0AB0 A                      Troop Strength of 0

            0      2CA1C A 1 CTUTL                          5                     4                                 0              0 NSL
WD0AB0 A                      Troop Strength of 0

            0      2CA1C A 2 CTUTL                          5                     4                                 0              0 NSL
WD0AB0 A                      Troop Strength of 0

            0      2CA1C A 3 CTUTL                          5                     4                                 0              0 NSL
WD0AB0 A                      Troop Strength of 0


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```

Figure 3.3.1.1-2. TPFDD Rejected Records Report

3.3.1.2 Database Analysis Reports

The Database Analysis function produces Database Analysis Verification reports when there is a discrepancy between two database tables.

Figure 3.3.1.2-1, Database Analysis Verification Report, shows an example of a discrepancy between the Engineering_Unit_Capability table and JEPES_Unit_Type table. If there is no discrepancy between the two tables, then "no rows selected" is output.

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                          DATABASE ANALYSIS VERIFICATION          PAGE -   1
      For PLAN FACILITY CONSTRUCTION POLICY AGAINST FACILITY CATEGORY

   FACILITY
CATEGORY CODE                COMMENT
-------------    -------------------------------------
125C             NO MATCH in FACILITY CATEGORY table
125D             NO MATCH in FACILITY CATEGORY table
125F             NO MATCH in FACILITY CATEGORY table
141A             NO MATCH in FACILITY CATEGORY table
441B             NO MATCH in FACILITY CATEGORY table
831B             NO MATCH in FACILITY CATEGORY table
871A             NO MATCH in FACILITY CATEGORY table
871B             NO MATCH in FACILITY CATEGORY table
972A             NO MATCH in FACILITY CATEGORY table
972B             NO MATCH in FACILITY CATEGORY table





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                               10 rows selected.
```

Figure 3.3.1.2-1. Database Analysis Verification Report

3.3.1.3 Requirements Generation

3.3.1.3.1 Reports

The Requirements Generation function produces the Facility Requirements list. Options are available to produce a list of all projects, or a specific base complex may be selected. The reports provide the user with a tool to evaluate different project types by knowing the facilities to build, components used, who will build the facility, and for whom. The order projects are listed as shown in Figure 3.3.1.3.1-1, Facility Requirements List. Refer to Appendix H, JEPES Codes, for descriptions of the output.

Unclassified

FACILITY REQUIREMENTS LIST PAGE - 1

(ORDERED BY BASE COMPLEX, CATEGORY CODE, RDD, USING SERVICE, PROJECT TYPE, COMPONENT)

BASE COMPLEX	CATEGORY CODE	USING SERVICE	CONSTRUCTING SERVICE	FACILITY AMOUNT	RDD	COMPONENT CODE	NUMBER OF COMPONENTS	PROJECT TYPE
2	111A	F	F	53340.0	0	11004AC	.00	4
2	111R	F	F	100.0	0	???????	.00	6
2	111R	F	F	100.0	1	11035FR	.00	4
2	112A	F	F	53340.0	0	11071AR	.00	4
2	112R	F	F	100.0	0	???????	.00	6
2	112R	F	F	100.0	1	11035FR	.00	4
2	113A	N	F	9058.0	61	???????	.00	2
2	113A	M	F	1860.0	77	???????	.00	2
2	113A	M	F	1860.0	103	???????	.00	2
2	113A	N	F	9058.0	114	???????	.00	2
2	113A	N	F	9058.0	144	???????	.00	2
2	113A	M	F	1860.0	176	???????	.00	2
2	116A	F	F	803.0	0	???????	.00	6
2	116B	F	F	1600.0	0	???????	.00	6
2	116D	F	F	17800.0	0	11007AC	.00	4
2	121B	F	F	4.0	0	???????	.00	6
2	124A	N	F	37700.0	61	???????	.00	2
2	124A	N	F	37700.0	114	???????	.00	2
2	124A	N	F	37700.0	144	???????	.00	2
2	131A	F	F	8100.0	0	???????	.00	6
2	133A	F	F	1.0	0	???????	.00	6
2	141B	F	F	960.0	0	???????	.00	6
2	141E	N	F	1440.0	61	???????	.00	2
2	141E	N	F	1440.0	114	???????	.00	2
2	141E	N	F	1440.0	144	???????	.00	2
2	141H	F	F	2400.0	0	???????	.00	6
2	141I	F	F	2750.0	0	???????	.00	6
2	141L	F	F	5055.0	0	???????	.00	6
2	141M	F	F	4000.0	0	???????	.00	6
2	141N	F	F	2000.0	0	???????	.00	6
2	143A	N	F	700.0	61	???????	.00	2
2	143A	N	F	700.0	114	???????	.00	2
2	143A	N	F	700.0	144	???????	.00	2
2	149A	N	F	758.0	61	???????	.00	2
2	149A	M	F	2.0	77	???????	.00	2
2	149A	M	F	2.0	103	???????	.00	2
2	149A	N	F	758.0	114	???????	.00	2
2	149A	N	F	758.0	144	???????	.00	2
2	149A	M	F	2.0	176	???????	.00	2
2	149B	F	F	1.0	0	???????	.00	6
2	149E	F	F	3000.0	0	???????	.00	6
2	211B	F	F	1000.0	0	???????	.00	6
2	211C	F	F	6000.0	0	???????	.00	6

Unclassified

Figure 3.3.1.3.1-1. Facility Requirements List

3.3.1.3.2 Graphics

Below are the descriptions of Requirements Generation graphics, shown in Figures 3.3.1.3.2-1 through 3.3.1.3.2-5:

a. Figure 3.3.1.3.2-1, Base Populations for an OPLAN Graph - This spreadsheet and bar graph show for each base complex number (BCN) in the OPLAN, the total population and the noncombat population.

b. Figure 3.3.1.3.2-2, Time-Phased Population Data for an OPLAN Graph - This spreadsheet and bar graph display, for the specific OPLAN, the individual and cumulative troop strength for each aggregation time period.

c. Figure 3.3.1.3.2-3, Time-Phased Requirements Data for an OPLAN and Category Codes Graph - This spreadsheet and bar graph display, for an entire OPLAN, the total facility amount for up to four selected Department of Defense (DOD) Facility Category codes for each aggregation time period.

d. Figure 3.3.1.3.2-4, Time-Phased Requirements Data for a Base Complex and Category Codes Graph - This spreadsheet and bar graph display, for a BCN, the total facility amount for up to four selected DOD Facility Category codes for each aggregation time period.

e. Figure 3.3.1.3.2-5, Time-Phased Population Growth for a Base Complex Graph. This spreadsheet and bar graph display, for a BCN, the individual and cumulative troop strength for each aggregation time period, see This is available by selecting the *runjgraphs* icon. See Appendix G, Functions Available Outside of JEPES.

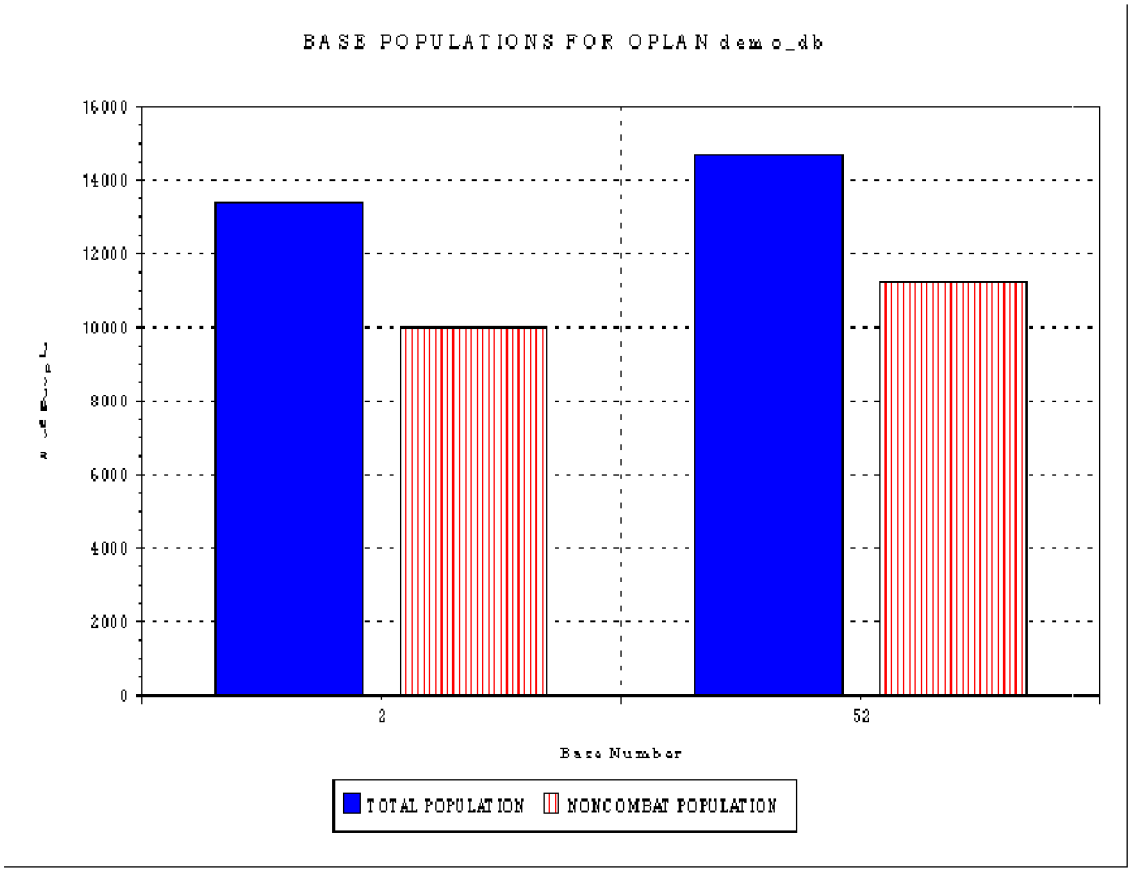

Figure 3.3.1.3.2-1. Base Populations for an OPLAN Graph

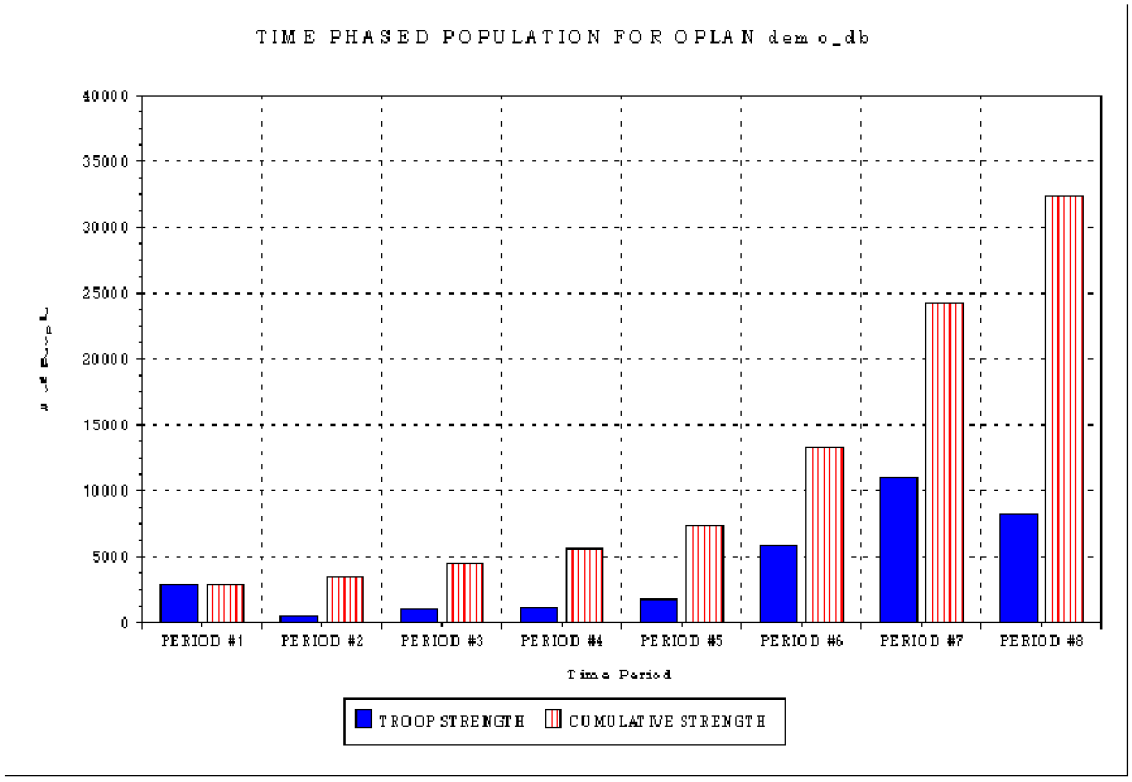

Figure 3.3.1.3.2-2. Time-Phased Population for an OPLAN Graph

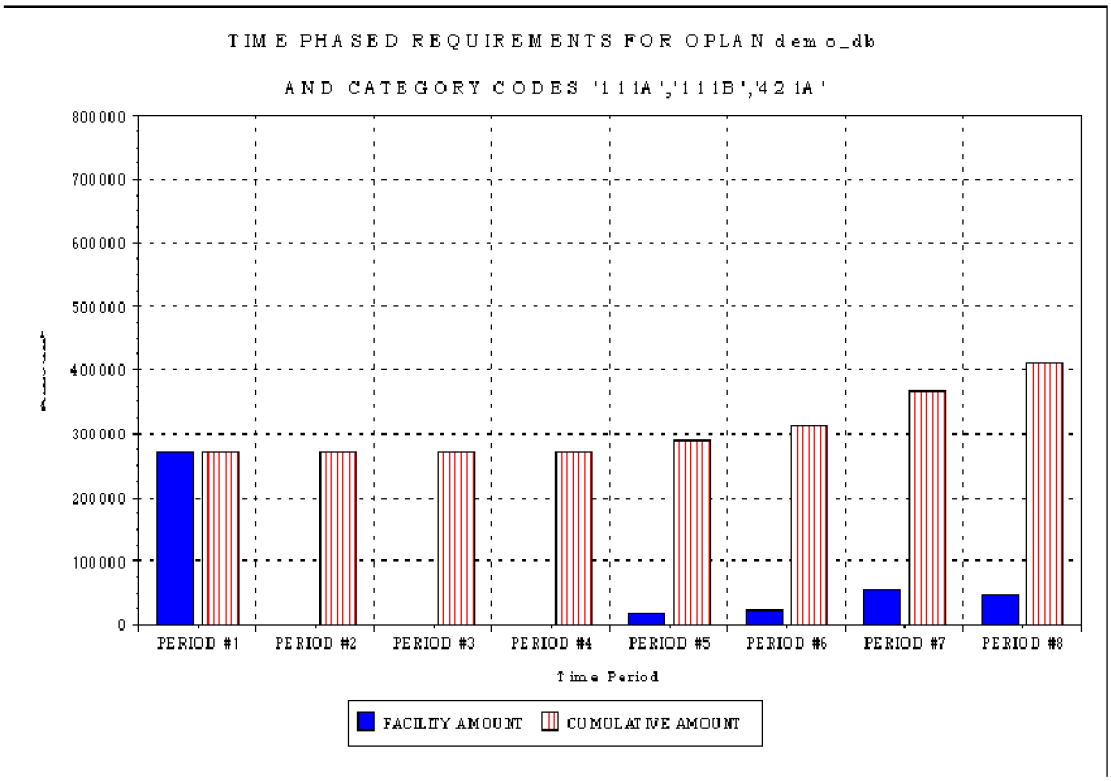

Figure 3.3.1.3.2-3. Time-Phased Requirements for an OPLAN and Category Codes Graph

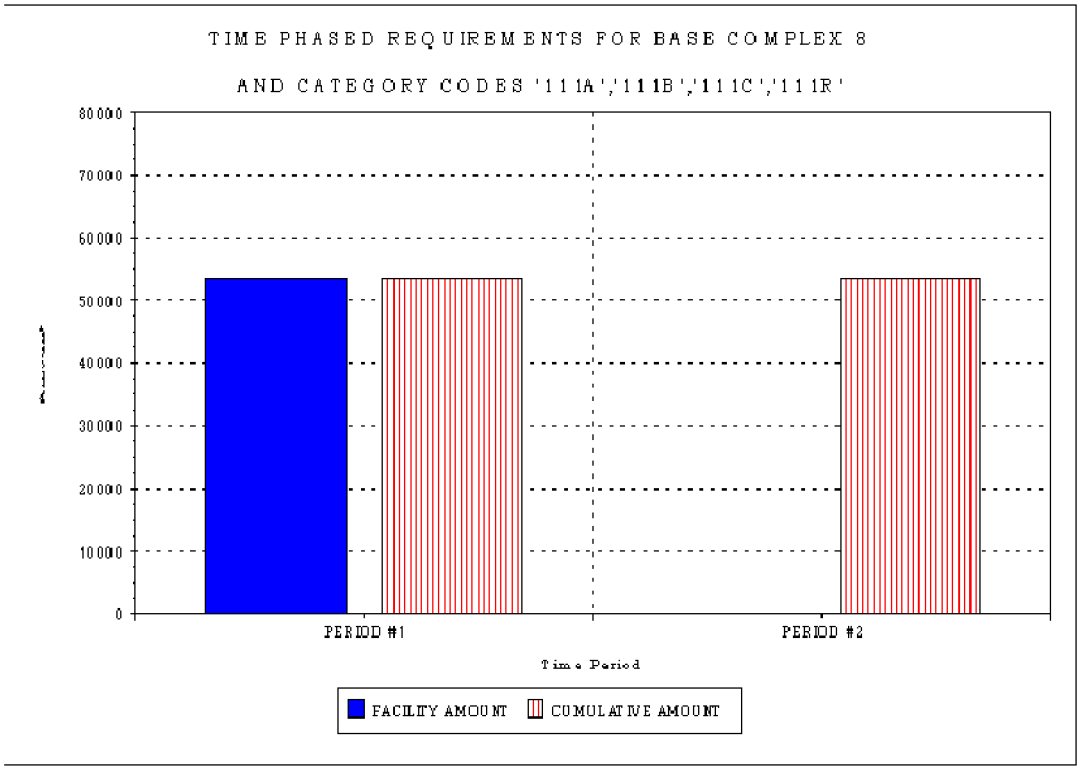

Figure 3.3.1.3.2-4. Time-Phased Requirements for a Base Complex and Category Codes Graph

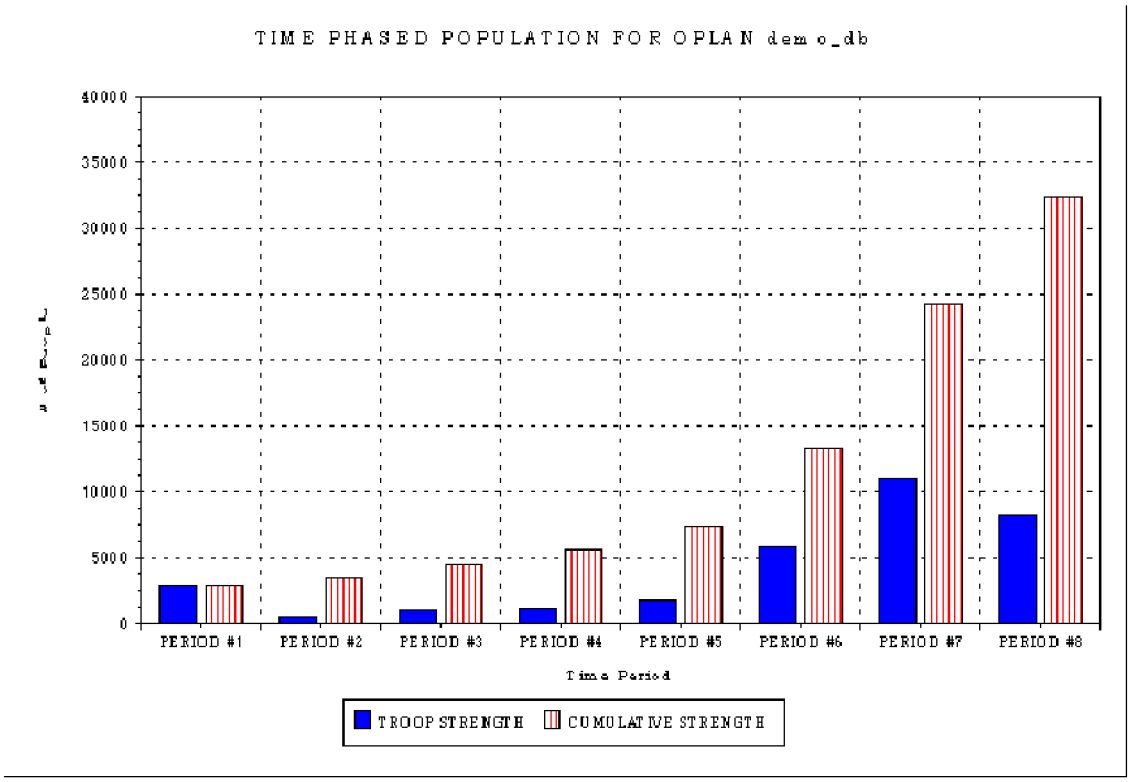

Figure 3.3.1.3.2-5. Time-Phased Population Growth for a Base Complex Graph

3.3.1.4 Requirements Analysis

3.3.1.4.1 Reports

The Requirements Analysis function has several types of reports that provide requirements satisfied by available assets. They include project type, category codes, and the using and constructing service. All reports can be limited to list only projects within specified regions or within a time period.

The first set of reports show the results of requirements matched to available assets. These are as follows:

a. Figure 3.3.1.4.1-1, Asset-Satisfied Requirements Report, and
b. Figure 3.3.1.4.1-2, Asset-Unsatisfied Requirements Report.

The second set of reports show the results of applying engineering support to the asset-unsatisfied requirements. These reports show the project type associated with the category codes of a specified base complex, the date available, and required completion date for construction. The reports are as follows:

a. Figure 3.3.1.4.1-3, All Construction Requirements Report,
b. Figure 3.3.1.4.1-4, Satisfied Construction Requirements Report, and
c. Figure 3.3.1.4.1-5, Unsatisfied Construction Requirements Report.

Unclassified

DATABASE ANALYSIS FOR ASSET-SATISFIED REQUIREMENTS PAGE - 1

BCN	JCS CAT CODE	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	111A	53,340.0	SY	F	S	0		.00	4
2	111R	100.0	EA	F	S	0		.00	6
2	112A	53,340.0	SY	F	S	0		.00	4
2	112R	100.0	EA	F	S	0		.00	6
2	116A	803.0	SY	F	S	0		.00	6
2	116B	1,600.0	SY	F	S	0		.00	6
2	121B	4.0	OL	F	S	0		.00	6
2	131A	8,100.0	SF	F	S	0		.00	6
2	133A	1.0	SF	F	S	0		.00	6
2	141B	960.0	SF	F	S	0		.00	6
2	141H	2,400.0	SF	F	S	0		.00	6
2	141I	2,750.0	SF	F	S	0		.00	6
2	141L	5,055.0	SF	F	S	0		.00	6
2	141M	4,000.0	SF	F	S	0		.00	6
2	141N	2,000.0	SF	F	S	0		.00	6
2	149B	1.0	EA	F	S	0		.00	6
2	149E	3,000.0	LF	F	S	0		.00	6
2	211B	1,000.0	SF	F	S	0		.00	6
2	211E	7,500.0	SF	F	S	0		.00	6
2	214B	12,000.0	SF	F	S	0		.00	6
2	215A	8,625.0	SF	F	S	0		.00	6
2	216A	7,570.0	SF	F	S	0		.00	6
2	218C	3,880.0	SF	F	S	0		.00	6
2	218D	6,065.0	SF	F	S	0		.00	6
2	219A	32,431.8	SF	F	S	0		.00	6
2	432A	432.0	CF	F	S	0		.00	6
2	442A	36,922.3	SF	F	S	0		.00	6
2	452A	8,185.9	SY	F	S	0		.00	6
2	610A	5,987.4	SF	F	S	0		.00	6
2	730A	6,000.0	SF	F	S	0		.00	6
2	730B	9,695.0	SF	F	S	0		.00	6
2	411G	1,200.0	GA	F	S	5		.00	4
2	721A	2,462.4	SF	F	S	33		.00	12
2	722A	532.0	SF	F	S	33		.00	12
2	724A	418.0	SF	F	S	33		.00	12
2	811A	57.0	KW	F	S	33		.00	12
2	812A	1,900.0	LF	F	S	33		.00	12
2	831A	.4	KG	F	S	33		.00	12
2	832A	380.0	LF	F	S	33		.00	12
2	841B	1.9	KG	F	S	33		.00	12
2	841C	950.0	GA	F	S	33		.00	12
2	842A	418.0	LF	F	S	33		.00	12
2	721A	2,203.2	SF	A	S	36		.00	12
2	722A	476.0	SF	A	S	36		.00	12

Unclassified

Figure 3.3.1.4.1-1. Asset-Satisfied Requirements Report

Unclassified

DATABASE ANALYSIS FOR ASSET-UNSATISFIED REQUIREMENTS PAGE - 1

BCN	JCS CAT CODE	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	111RB	100.0	EA	F	F	1	11035FR	100.00	4
2	111RW	9.5	EA	F	F	10	11035FR	9.00	1
2	111RW	7.5	EA	F	F	11	11035FR	7.00	1
2	111RW	4.5	EA	F	F	12	11035FR	4.00	1
2	111RW	2.0	EA	F	F	13	11035FR	2.00	1
2	112RB	100.0	EA	F	F	1	11035FR	100.00	4
2	112RW	1.0	EA	F	F	10	11035FR	1.00	1
2	112RW	1.0	EA	F	F	11	11035FR	1.00	1
2	112RW	1.0	EA	F	F	12	11035FR	1.00	1
2	112RW	1.0	EA	F	F	13	11035FR	1.00	1
2	116DB	17,800.0	SY	F	F	0	11007AC	1.28	4
2	124AB	37,700.0	GA	N	N	61	12430B	1.00	2
2	124AB	37,700.0	GA	N	N	114	12430B	1.00	2
2	124AB	37,700.0	GA	N	N	144	12430B	1.00	2
2	211CB	6,000.0	SF	F	F	0	14001FB	1.00	6
2	214CB	2,700.0	SF	F	F	0	21401FB	1.00	6
2	432AB	14.5	CF	A	A	50	43190AB	1.00	12
2	432AB	17.0	CF	A	A	36	43190AC	1.00	12
2	432AB	16.0	CF	A	A	85	43190AC	1.00	12
2	432AB	17.0	CF	A	A	172	43190AC	1.00	12
2	432AB	6,553.3	CF	F	F	0	43203FB	1.00	6
2	OPRB	5,368.0	MN	F	F	5	XXXXXXX	5,368.00	4
2	OPRB	1,100.0	MN	F	F	10	XXXXXXX	1,100.00	4
2	OPRB	1,100.0	MN	F	F	15	XXXXXXX	1,100.00	4
2	OPRB	3,305.0	MN	F	F	30	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F	F	45	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F	F	60	XXXXXXX	3,305.00	4
2	OPRB	6,610.0	MN	F	F	90	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	120	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	150	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	180	XXXXXXX	6,610.00	4
8	111RW	9.5	EA	F	F	10	11035FR	9.00	1
8	111RW	7.5	EA	F	F	11	11035FR	7.00	1
8	111RW	4.5	EA	F	F	12	11035FR	4.00	1
8	111RW	2.0	EA	F	F	13	11035FR	2.00	1
8	112RW	19.5	EA	F	F	10	11035FR	19.00	1
8	112RW	15.0	EA	F	F	11	11035FR	15.00	1
8	112RW	9.0	EA	F	F	12	11035FR	9.00	1
8	112RW	4.0	EA	F	F	13	11035FR	4.00	1
8	112RW	.5	EA	F	F	14	11035FR	1.00	1
8	116DB	4,230.0	SY	F	F	0	11007AC	.31	4
8	811AB	52.0	KW	A	A	63	81110AU	.87	12
8	811AB	87.0	KW	A	A	73	81110AV	.73	12
8	811AB	96.0	KW	A	A	75	81110AV	.80	12

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Figure 3.3.1.4.1-2. Asset-Unsatisfied Requirements Report

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DATABASE ANALYSIS FOR CONSTRUCTION REQUIREMENTS PAGE - 1

BCN	JCS CAT CODE	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	START DATE	DATE AVAIL	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	111A	53,340.0	SY	F	S	0	0	0		.00	4
2	111R	100.0	EA	F	S	0	0	0		.00	6
2	112A	53,340.0	SY	F	S	0	0	0		.00	4
2	112R	100.0	EA	F	S	0	0	0		.00	6
2	113A	1,860.0	SY	M	S	77	0	77		.00	2
2	113A	9,058.0	SY	N	S	144	0	144		.00	2
2	113A	1,860.0	SY	M	S	103	0	103		.00	2
2	113A	9,058.0	SY	N	S	61	0	61		.00	2
2	113A	1,860.0	SY	M	S	176	0	176		.00	2
2	113A	9,058.0	SY	N	S	114	0	114		.00	2
2	116A	803.0	SY	F	S	0	0	0		.00	6
2	116B	1,600.0	SY	F	S	0	0	0		.00	6
2	121B	4.0	OL	F	S	0	0	0		.00	6
2	131A	8,100.0	SF	F	S	0	0	0		.00	6
2	133A	1.0	SF	F	S	0	0	0		.00	6
2	141B	960.0	SF	F	S	0	0	0		.00	6
2	141E	1,440.0	SF	N	S	61	0	61		.00	2
2	141E	1,440.0	SF	N	S	144	0	144		.00	2
2	141E	1,440.0	SF	N	S	114	0	114		.00	2
2	141H	2,400.0	SF	F	S	0	0	0		.00	6
2	141I	2,750.0	SF	F	S	0	0	0		.00	6
2	141L	5,055.0	SF	F	S	0	0	0		.00	6
2	141M	4,000.0	SF	F	S	0	0	0		.00	6
2	141N	2,000.0	SF	F	S	0	0	0		.00	6
2	143A	700.0	SF	N	S	61	0	61		.00	2
2	143A	700.0	SF	N	S	144	0	144		.00	2
2	143A	700.0	SF	N	S	114	0	114		.00	2
2	149A	2.0	LF	M	S	77	0	77		.00	2
2	149A	758.0	LF	N	S	114	0	114		.00	2
2	149A	758.0	LF	N	S	144	0	144		.00	2
2	149A	758.0	LF	N	S	61	0	61		.00	2
2	149A	2.0	LF	M	S	103	0	103		.00	2
2	149A	2.0	LF	M	S	176	0	176		.00	2
2	149B	1.0	EA	F	S	0	0	0		.00	6
2	149E	3,000.0	LF	F	S	0	0	0		.00	6
2	211B	1,000.0	SF	F	S	0	0	0		.00	6
2	211E	7,500.0	SF	F	S	0	0	0		.00	6
2	214B	12,000.0	SF	F	S	0	0	0		.00	6
2	215A	8,625.0	SF	F	S	0	0	0		.00	6
2	216A	7,570.0	SF	F	S	0	0	0		.00	6
2	218C	3,880.0	SF	F	S	0	0	0		.00	6
2	218D	6,065.0	SF	F	S	0	0	0		.00	6
2	219A	32,431.8	SF	F	S	0	0	0		.00	6
2	411G	1,200.0	GA	F	S	5	0	5		.00	4

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Figure 3.3.1.4.1-3. All Construction Requirements Report

Unclassified

DATABASE ANALYSIS FOR SATISFIED CONSTRUCTION REQUIREMENTS PAGE - 1

BSE_CMPLX_NBR	JCS CAT CODE	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	START DATE	DATE AVAIL	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	111A	53,340.0	SY	F	S	0	0	0		.00	4
2	111R	100.0	EA	F	S	0	0	0		.00	6
2	112A	53,340.0	SY	F	S	0	0	0		.00	4
2	112R	100.0	EA	F	S	0	0	0		.00	6
2	113A	1,860.0	SY	M	S	77	0	77		.00	2
2	113A	9,058.0	SY	N	S	144	0	144		.00	2
2	113A	1,860.0	SY	M	S	103	0	103		.00	2
2	113A	9,058.0	SY	N	S	61	0	61		.00	2
2	113A	1,860.0	SY	M	S	176	0	176		.00	2
2	113A	9,058.0	SY	N	S	114	0	114		.00	2
2	116A	803.0	SY	F	S	0	0	0		.00	6
2	116B	1,600.0	SY	F	S	0	0	0		.00	6
2	121B	4.0	OL	F	S	0	0	0		.00	6
2	131A	8,100.0	SF	F	S	0	0	0		.00	6
2	133A	1.0	SF	F	S	0	0	0		.00	6
2	141B	960.0	SF	F	S	0	0	0		.00	6
2	141E	1,440.0	SF	N	S	61	0	61		.00	2
2	141E	1,440.0	SF	N	S	144	0	144		.00	2
2	141E	1,440.0	SF	N	S	114	0	114		.00	2
2	141H	2,400.0	SF	F	S	0	0	0		.00	6
2	141I	2,750.0	SF	F	S	0	0	0		.00	6
2	141L	5,055.0	SF	F	S	0	0	0		.00	6
2	141M	4,000.0	SF	F	S	0	0	0		.00	6
2	141N	2,000.0	SF	F	S	0	0	0		.00	6
2	143A	700.0	SF	N	S	61	0	61		.00	2
2	143A	700.0	SF	N	S	144	0	144		.00	2
2	143A	700.0	SF	N	S	114	0	114		.00	2
2	149A	2.0	LF	M	S	77	0	77		.00	2
2	149A	758.0	LF	N	S	114	0	114		.00	2
2	149A	758.0	LF	N	S	144	0	144		.00	2
2	149A	758.0	LF	N	S	61	0	61		.00	2
2	149A	2.0	LF	M	S	103	0	103		.00	2
2	149A	2.0	LF	M	S	176	0	176		.00	2
2	149B	1.0	EA	F	S	0	0	0		.00	6
2	149E	3,000.0	LF	F	S	0	0	0		.00	6
2	211B	1,000.0	SF	F	S	0	0	0		.00	6
2	211E	7,500.0	SF	F	S	0	0	0		.00	6
2	214B	12,000.0	SF	F	S	0	0	0		.00	6
2	215A	8,625.0	SF	F	S	0	0	0		.00	6
2	216A	7,570.0	SF	F	S	0	0	0		.00	6
2	218C	3,880.0	SF	F	S	0	0	0		.00	6
2	218D	6,065.0	SF	F	S	0	0	0		.00	6
2	219A	32,431.8	SF	F	S	0	0	0		.00	6
2	411G	1,200.0	GA	F	S	5	0	5		.00	4

Unclassified

Figure 3.3.1.4.1-4. Satisfied Construction Requirements Report

Unclassified

DATABASE ANALYSIS FOR UNSATISFIED CONSTRUCTION REQUIREMENTS PAGE - 1

BCN	JCS CAT CODE	FACILITY QUANTITY REQUIRED	UOM	USING SERVICE	CONSTR SERVICE	DATE REQD	START DATE	CMPNT CODE	NUMBER COMPONENTS REQUIRED	PROJ TYPE
2	OPRB	5,368.0	MN	F	F	5	112	XXXXXXX	5,368.00	4
2	OPRB	1,100.0	MN	F	F	10	140	XXXXXXX	1,100.00	4
2	OPRB	1,100.0	MN	F	F	15	181	XXXXXXX	1,100.00	4
2	OPRB	3,305.0	MN	F	F	30	181	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F	F	45	181	XXXXXXX	3,305.00	4
2	OPRB	3,305.0	MN	F	F	60	181	XXXXXXX	3,305.00	4
2	OPRB	6,610.0	MN	F	F	90	181	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	120	181	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	150	181	XXXXXXX	6,610.00	4
2	OPRB	6,610.0	MN	F	F	180	181	XXXXXXX	6,610.00	4
2	214CB	2,700.0	SF	F	F	0	181	21401FB	1.00	6
2	432AB	6,553.3	CF	F	F	0	181	43203FB	1.00	6
2	432AB	17.0	CF	A	A	36	181	43190AC	1.00	12
2	432AB	14.5	CF	A	A	50	181	43190AB	1.00	12
2	432AB	16.0	CF	A	A	85	181	43190AC	1.00	12
2	432AB	17.0	CF	A	A	172	181	43190AC	1.00	12
8	OPRB	1,501.0	MN	F	F	60	142	XXXXXXX	1,501.00	4
8	OPRB	3,002.0	MN	F	F	90	167	XXXXXXX	3,002.00	4
8	OPRB	3,002.0	MN	F	F	120	181	XXXXXXX	3,002.00	4
8	OPRB	3,002.0	MN	F	F	150	181	XXXXXXX	3,002.00	4
8	OPRB	3,002.0	MN	F	F	180	181	XXXXXXX	3,002.00	4
8	832AB	623.0	LF	F	F	-15	181	83203FB	2.08	12
8	832AB	870.0	LF	F	F	4	181	83203FB	2.90	12
8	832AB	870.0	LF	F	F	7	181	83203FB	2.90	12
8	832AB	900.0	LF	F	F	10	181	83203FB	3.00	12
8	832AB	890.0	LF	F	F	39	181	83203FB	2.97	12
8	832AB	950.0	LF	F	F	65	181	83203FB	3.17	12
8	832AB	850.0	LF	F	F	75	181	83203FB	2.83	12
8	832AB	910.0	LF	F	F	79	181	83203FB	3.03	12
8	832AB	970.0	LF	F	F	80	181	83203FB	3.23	12
8	832AB	980.0	LF	F	F	87	181	83203FB	3.27	12
8	832AB	850.0	LF	F	F	105	181	83203FB	2.83	12
8	832AB	980.0	LF	F	F	117	181	83203FB	3.27	12
8	832AB	870.0	LF	F	F	136	181	83203FB	2.90	12
8	832AB	970.0	LF	F	F	142	181	83203FB	3.23	12
8	832AB	850.0	LF	F	F	148	181	83203FB	2.83	12
8	832AB	880.0	LF	F	F	149	181	83203FB	2.93	12
8	832AB	950.0	LF	F	F	151	181	83203FB	3.17	12
8	832AB	910.0	LF	F	F	152	181	83203FB	3.03	12
8	832AB	1,770.0	LF	F	F	155	181	83203FB	5.90	12
52	842AB	4,499.0	LF	M	N	139	164	84210G	.99	12
52	842AB	4,587.0	LF	N	N	139	165	84210G	1.01	12
52	842AB	4,642.0	LF	N	N	153	166	84210G	1.02	12
52	722AC	6,272.0	SF	N	N	82	170	72210PC	.56	12

Unclassified

Figure 3.3.1.4.1-5. Unsatisfied Construction Requirements Report

3.3.1.5 Support

There are two functions that provide output: the Non-Unit Cargo and LSA functions.

3.3.1.5.1 Non-Unit Cargo Function

The Non-Unit Cargo function provides two types of output: reports and text files.

a. Report. The Non-Unit Cargo function produces the Non-Unit Cargo Shipment Requirements Report for an OPLAN (See Figure 3.3.1.5.1-1, Non-Unit Cargo Shipment Requirements Report).

unclassified

25-APR-95 JOINT ENGINEER PLANNING and EXECUTION SYSTEM PAGE - 1
NON-UNIT CARGO SHIPMENT REQUIREMENTS
FOR OPLAN NUMBER DEMO_DB

DEL	BCN	GEOLOC	BASE NAME	COUNTRY CODE	SERVICE	LAD	FAC CAT CODE	SUB CLS	PCT SHIPPED	STONS REQUIRED	STONS SHIPPED	MTONS REQUIRED	MTONS SHIPPED
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	34	211C	4A	20.0	18.0	3.6	63	13
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	35	116D	4A	10.0	514.6	51.5	1,508	151
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	49	111R	4A	10.0	1,200.0	120.0	37,100	3,710
NO	2	LXEZ	KADENA AB	JA	NAVY	60	124A	4A	10.0	3.0	0.3	6	1
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	75	112R	4A	10.0	1,200.0	120.0	37,100	3,710
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	112	OPR	4A	0.0	0.0	0.0	0	0
NO	2	LXEZ	KADENA AB	JA	NAVY	113	124A	4A	10.0	3.0	0.3	6	1
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	140	OPR	4A	0.0	0.0	0.0	0	0
NO	2	LXEZ	KADENA AB	JA	NAVY	143	124A	4A	10.0	3.0	0.3	6	1
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	181	111R	4A	10.0	1,200.0	120.0	37,100	3,710
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	181	112R	4A	10.0	1,200.0	120.0	37,100	3,710
NO	2	LXEZ	KADENA AB	JA	AIR FORCE	181	214C	4A	20.0	42.0	8.4	41	8
NO	2	LXEZ	KADENA AB	JA	ARMY	181	432A	4A	40.0	0.0	0.0	7	3

unclassified

Figure 3.3.1.5.1-1. Non-Unit Cargo Shipment Requirements Report

b. Text File. The *logsafe.Txt* file provides Non-Unit Cargo information to be passed to LOGSAFE. The file format is shown in Table 3.3.1.5.1-1, LOGSAFE.TXT.

Table 3.3.1.5.1-1. LOGSAFE.TXT

Column	Contents Percentage Forces	Type	Range
1-5	OPLAN ID	C5	
6	Using Service	C1	
7-10	Base Primary Geoloc	C4	
11-12	Cyst Code	C2	
13-14	Subclass	C2	
15-1094	STONS to be Shipped	I10	0/999,999,999.9
1095-2174	MTONS to be Shipped	I9	0/999,999,999

Note: There is a record for each Base Complex considered. Output is in STON/MTONS per day over 180 days.

3.3.1.5.2 LSA

The LSA function provides two types of output: graphs and text files.

a. Graphs. Eight graphs are available, which show the percentage of theater-wide infrastructure (airfields, seaports, POL storage/distribution, non-POL storage/distribution, troop support, and utilities) available as a function of the requirements. All indicate this value as a function of Commencement Day (C-Day), except one. These graphs are as follows:

1. Figure 3.3.1.5.2-1, Percentage Forces Sustainable Graph - Lowest subelement percentage by time period.

2. Figure 3.3.1.5.2-2, Percent Available Graph - Minimum percentage for each subelement throughout the whole time period (180 days); i.e., the worst case for each subelement.

3. Percentage of subelement available over time:

   - Figure 3.3.1.5.2-3, Percent of Airfields Available Over Time Graph,

   - Figure 3.3.1.5.2-4, Percent of Seaports Available Over Time Graph,

   - Figure 3.3.1.5.2-5, Percent of POL storage/distribution Available Over Time Graph,

- Figure 3.3.1.5.2-6, Percent of Non-POL storage/distribution Available Over Time Graph,

- Figure 3.3.1.5.2-7, Percent of Troop Support Available Over Time Graph, and

- Figure 3.3.1.5.2-8, Percent of Utilities Available Over Time Graph.

Figure 3.3.1.5.2-1. Percentage Forces Sustainable Graph

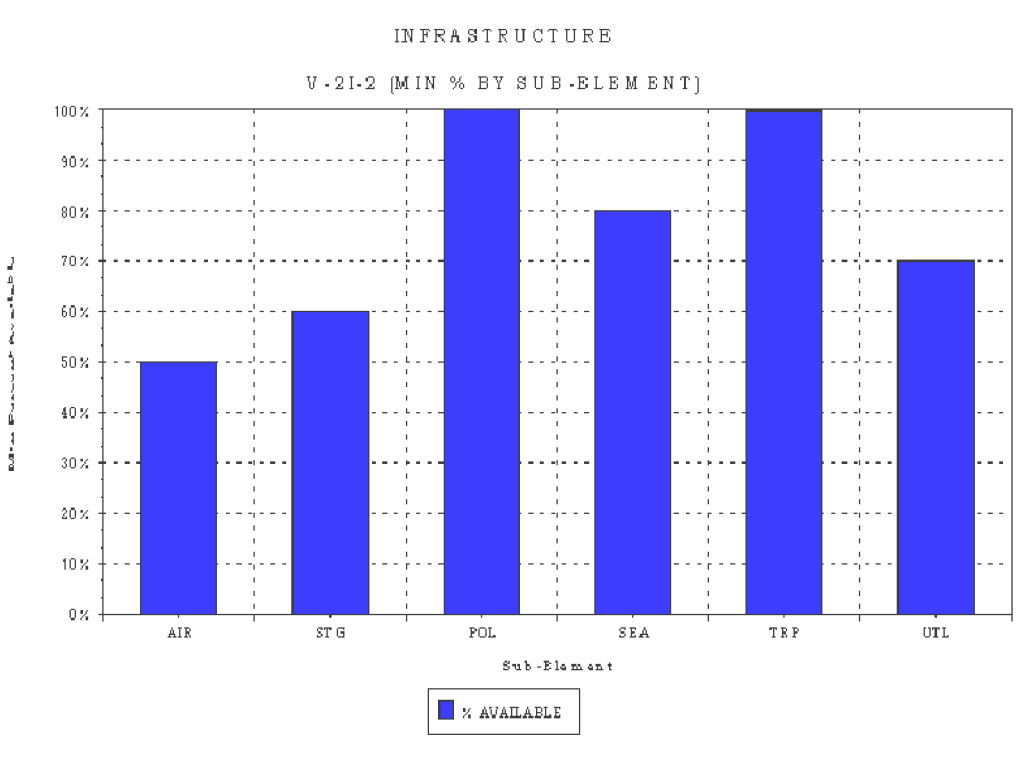

Figure 3.3.1.5.2-2. Percent Available Graph

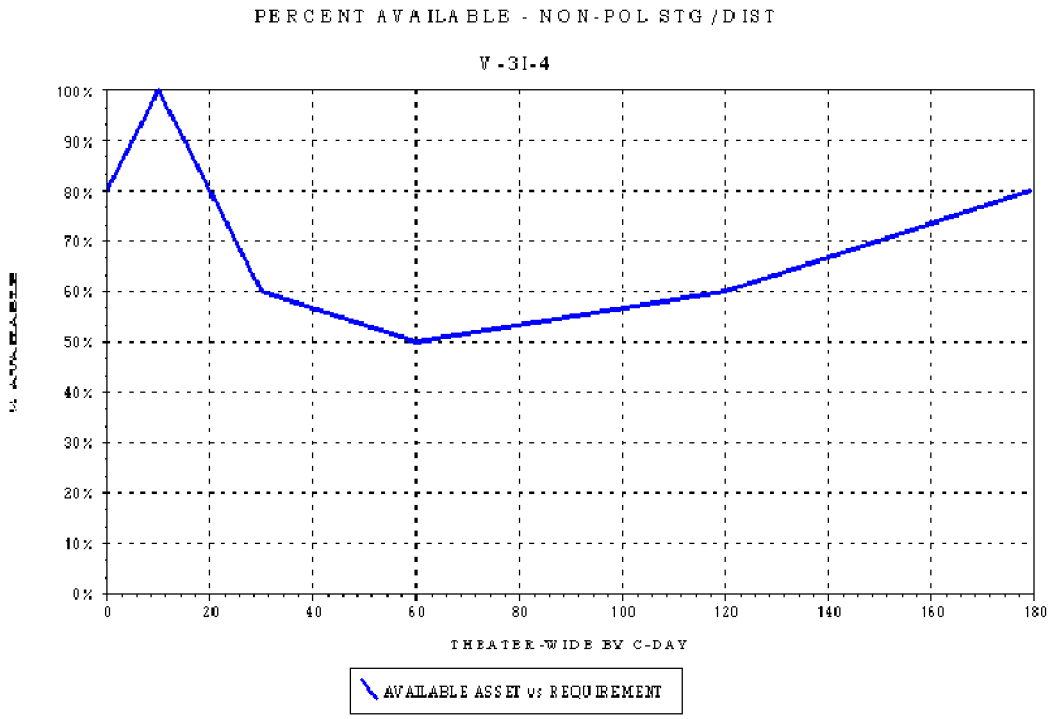

Figure 3.3.1.5.2-4. Percent of Seaport Available Over Time Graph

Figure 3.3.1.5.2-3. Percent of Airfields Available Over Time Graph

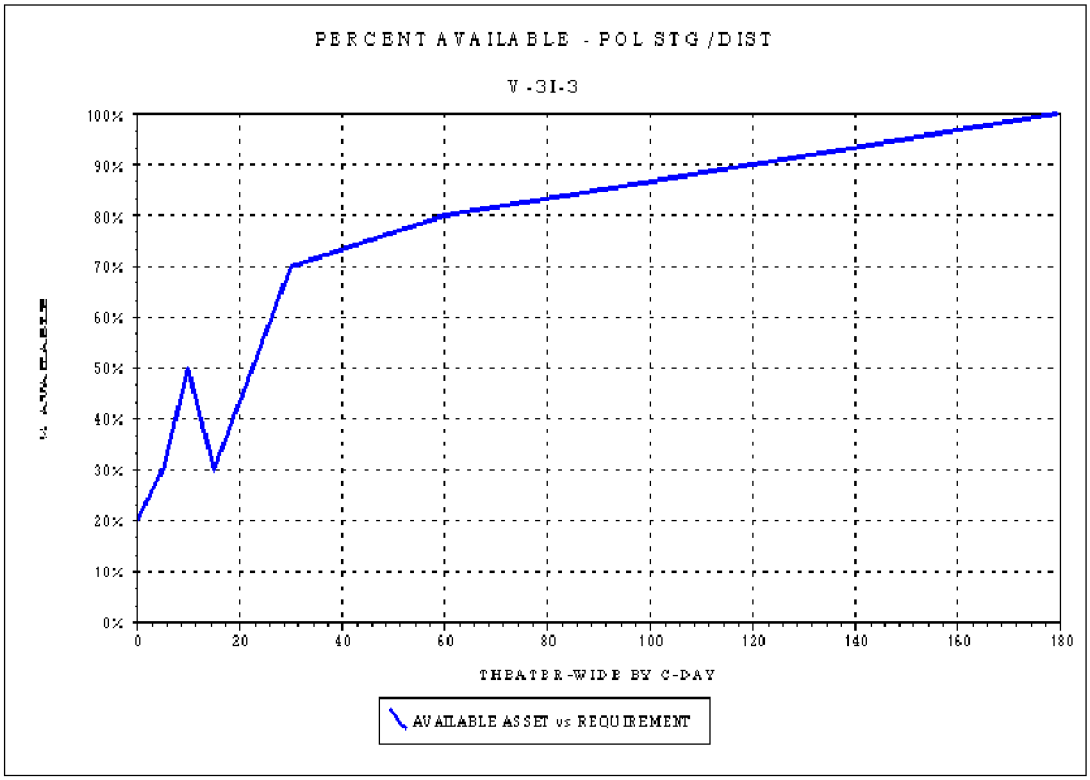

Figure 3.3.1.5.2-5. Percent of POL Storage/Distribution Available Over Time Graph

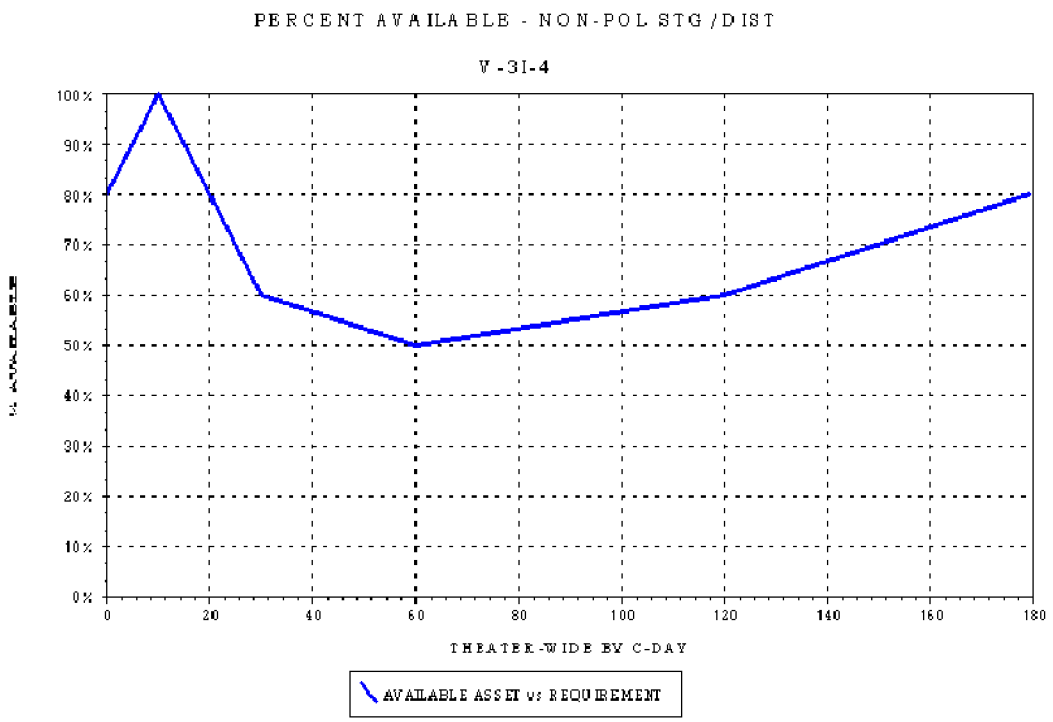

Figure 3.3.1.5.2-6. Percent of Non-POL Storage/Distribution Available Over Time Graph

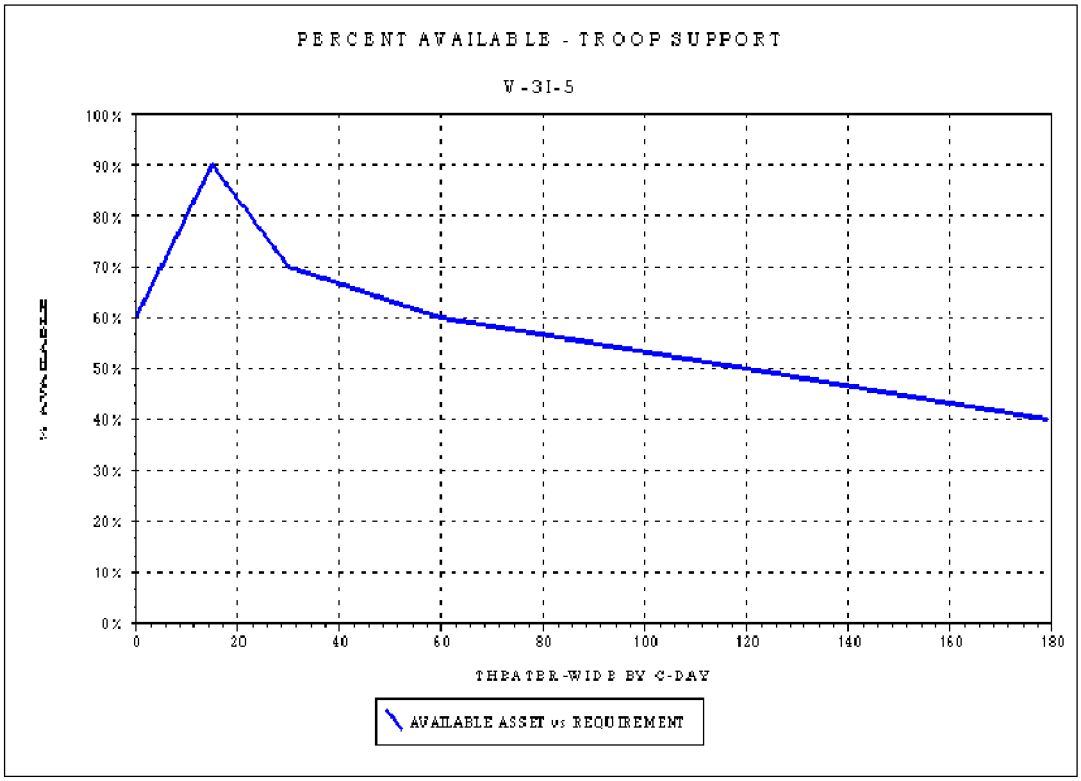

Figure 3.3.1.5.2-7. Percent of Troop Support Available Over Time Graph

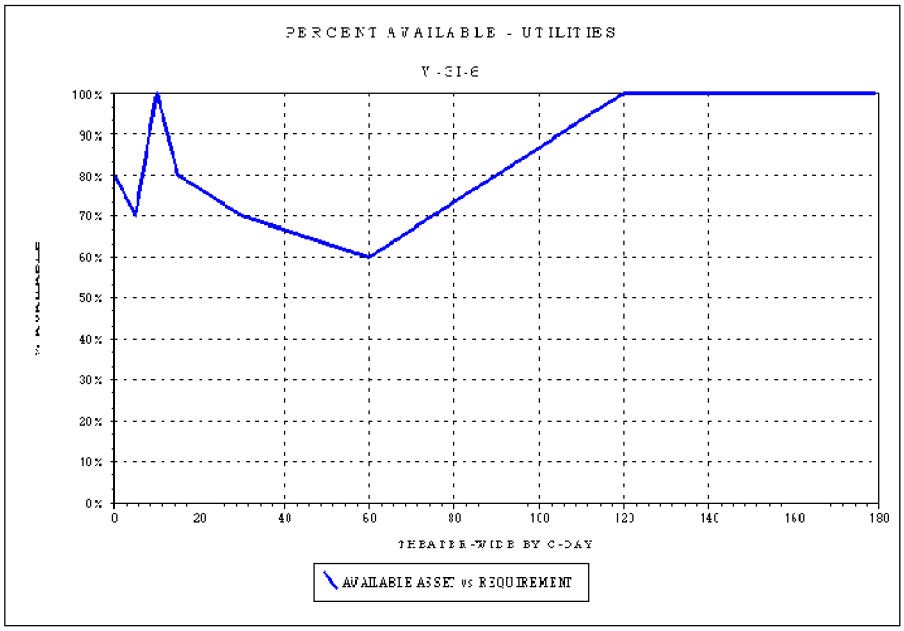

Figure 3.3.1.5.2-8. Percent of Utilities Available Over Time Graph

b. Text File.

1. *lsa.Txt*: This text file provides the LSA information to pass to the LSA. Record layout is shown in Table 3.3.1.5.2-1.

Table 3.3.1.5.2-1. LSA.TXT

Header Format			
Column	Contents	Type	Range
1	File Source ID	C1	'J'(hardcoded)
2-6	Graph ID	C5	
7-18	OPLAN ID	C12	
19-24	Date	C6	
25-27	Num of Days	I3	0/365

File Format			
Column	Contents	Type	Range
1-3	Day	I3	0/365
4-9	Percent Capable	F3.2	0.0/999.99

3.3.2 Sample Output

Paragraph 3.3.1, Output Format, provides sample reports and graphs for output format. Appendix D, JEPES Data Element Dictionary, provides additional definitions (See Table 3.3.1-1 for list of the basic output reports for JEPES). Appendix H, JEPES Codes, provides tables that define the JEPES Codes used in the reports.

3.4 Utilization of System Output

3.4.1 Database Analysis Verification

These reports inform the user of the condition of the database. The reports should be reviewed whenever new data or editing has occurred before system operation. A major effort in this area will help reduce later data related problems.

3.4.2 Requirements Generation

3.4.2.1 Facility Requirements List

This report is available for all or selected base complex lists facilities required by the OPLAN represented in the database.

3.4.2.2 Graphs

The available graphs are designed to give the user a quick, overall look at results of requirements generation before proceeding to the analysis phase. Thus, major unexpected requirements results may be found before time is spent on analyzing invalid requirements. See Paragraph 3.3.1.3.2, Graphics, for a description of specific graphs available.

3.4.3 Requirements Analysis

The Requirements Analysis outputs provide the user a comparison of requirements to the available assets. By various screen entries, the user may determine the overall engineering feasibility of an OPLAN, determine the detailed support available and not available for specific project types, and identify types of facility requirements. By selecting the utilization of only host nation support, the user may determine that contribution. These details may be determined by applying existing assets and determining the contribution gained with incoming engineering support. The specific reports are shown and described in Paragraph 3.3.1.4.1, Reports.

3.4.4 Support

3.4.4.1 Non-Unit Cargo

The Non-Unit Cargo shipment requirements provide the amounts of construction materials needed to support the effort calculated by the Requirements Analysis function. This information is useful for developing engineering requirements for the non-unit-cargo portion of the TPFDD. **Note:** Output given is reflective of the input of generation and analysis of requirements. This report is also available as a text file for export to LOGSAFE.

3.4.4.2 Logistic Sustainment Analysis

This function provides graphical output that identifies the percentage of six subelements that are available. These graphs provide an overall quick-look capability to assist the user in determining what areas need a detailed review of JEPES reports.

3.5 Data Backup

For information on saving the user's current JEPES data to an export file for future reference, see Paragraph 5.3.1, Utilities.

3.6 User Created Output

JEPES user s can create their own graphs from data in the JEPES tables. Figures 3.6-1 through 3.6-3 are examples. These graphs were created by inputting JEPES data into a Microsoft EXCEL 5.0 spreadsheet then creating the graphs. Once the user has created the necessary data by running the various functions (i.e. Requirements Generation, Requirements Analysis, Non-Unit Cargo and LSA), he can create his own chart with the generated data for his specific needs. For more information on creating these charts, contact the JEPES Technical Database Manager (TDBM), see Paragraph 5.1.1, JEPES Technical Database Manager.

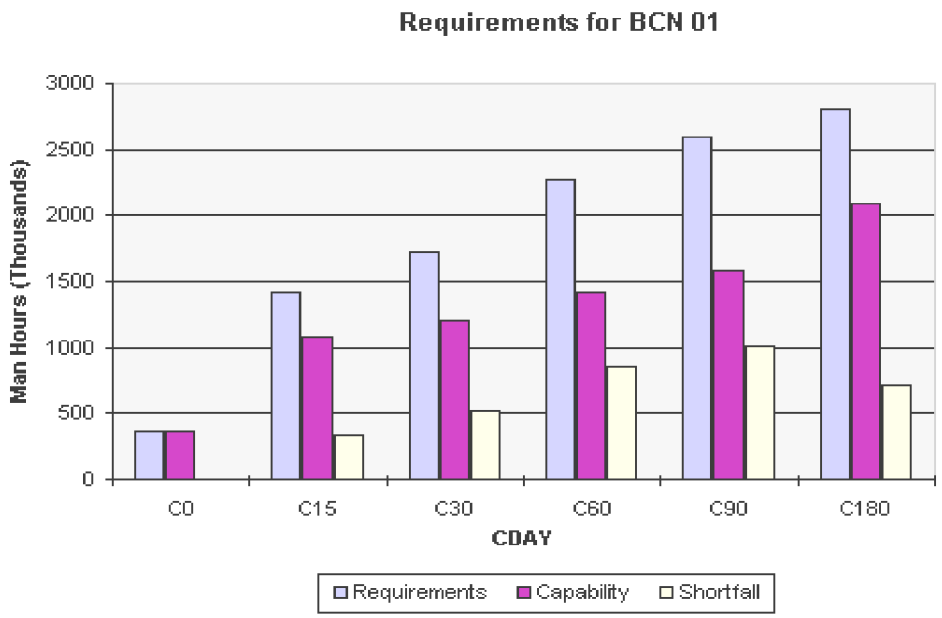

Figure 3.6-1. Requirements for a Base Complex Chart

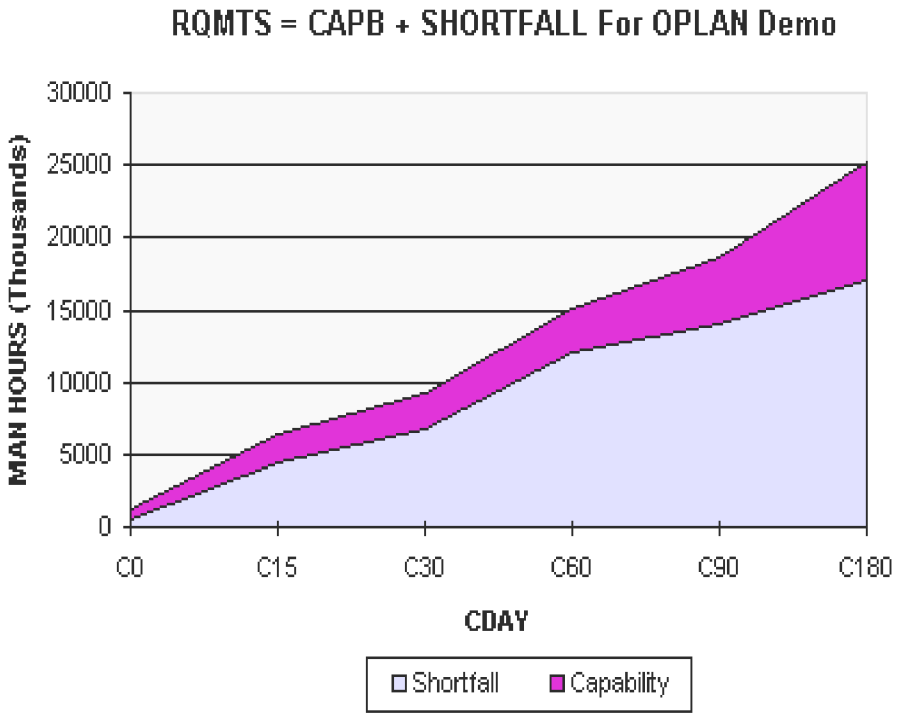

Figure 3.6-2. OPLAN Requirements Chart

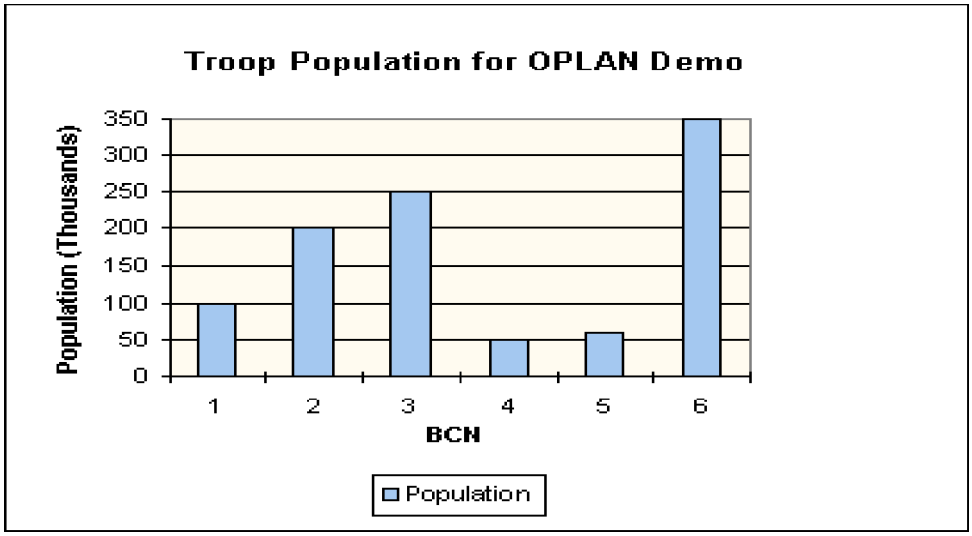

Figure 3.6-3. Troop Population for an OPLAN Chart