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## **HISTORICAL ANALYSIS GENERATOR (HAG) DOWNLOAD AND STARTUP HELPER for USACE.**

### **A. Downloading HAG**

1. The latest HAG software, database and instructions are available for downloading at this site: <http://www.hnd.usace.army.mil/traces/Government.asp> .

### **B. Getting Started:**

1) This User Guide is only intended to get you started using HAG. Not all topics or requirements will be discussed here. The HAG help button has an extensive library to provide information not covered here.

2) To start, open the database that you want to look at. This program allows you to have as many databases as you want, but initially it is recommended that you start with the latest master database that you downloaded from the TRACES home page.

 **Note:** It is very important to create a separate copy of any database, that you have a lot of time invested in, as a backup. Rename your current database and save regularly to the backup copy to prevent loss of data entry.

3) To Query the database for a specific project or type of project, etc. go to the icon toolbar at the top of the screen and click on the Create Query button (you must have a database open to click on this option).

On the popup screen, enter the search parameters that are of interest to you. Three entry boxes allow you to pick from a list: Contract Type, Funding Type, and the Service. Two additional boxes (District, and Installation), allow selection from lists accessed by the “Select from Table” button on the tool bar at the top of the screen. This button is only available to you when the cursor is in one of the two boxes.

4) Click on “New Query”. This will create a subset of all projects in HAG according to your search parameter entries. The number of projects in any subset will be shown in a box at the bottom right hand corner of the screen. Note: If this box indicates that no projects were found, check that you started your query from a set or subset including some or all projects. If you desire to do a fresh query from all the projects in HAG, click again on the =? button. Click on the “Clear All” button, which will empty all parameter entry boxes. Then click the “New Query” button, which will again pull up all the projects in HAG. You may then do a new search using different parameters.

5) There are other icons on the toolbar, each showing a small text identification popup box when the cursor arrow covers the icon. (E.g.: Add Record, Edit Record, Add Under Record; Project Level, Facility Level, System Level, Sub-System Level). Use the Help button for descriptions of all the toolbar icons or see the HAG user's manual which can be downloaded from the TRACES web page)

### C. TO ADD A PROJECT RECORD:

1) Go to the highest level of the database by clicking on the Project Level icon from the toolbar, or click on View at the top of the screen and then Project Level from the pull down menu.

2) On the toolbar, click on the Add Record button. On the Add Projects popup screen, proceed to fill in project data (remembering that a project may be comprised of several facilities).

3) Place the cursor inside the Installation Box. Then choose your installation from the pick list that opens when you press Select at the bottom of the screen.

 Note: The Select option is not available until cursor is placed inside Installation box. Do not manually enter the actual Unit Identification Code (UIC) in this field. Choose the UIC nearest the actual activity from the pick list. (See graphic on previous page)

4) Project Description: A good description of each project and its facilities is required. Provide the best description you can including construction types and quantities for most all systems.

5) Support Award Field: In this field show the portion of the Award Amount that is for supporting costs. This data provides the calculation shown as "Support Ratio".

6) View Bid Data: Click on this button to open a window where you enter the name and amount of each bidder. There is no limit to the number of entries. The program automatically sorts the bids from lowest to highest and uses this data to calculate the "Bid Average" shown on the project page.

7) Other Data Fields: See Section 5 of the HAG user manual for a complete list of all data entry fields. This information is also found in the program help file. The LOAD SHEETS at the back of this guide provide helpful suggestions as to required format and typical data entries.

8) When you have finished making project data entries on this screen, you will then have the choice of clicking on one of five buttons ("OK", "Next", "Add Under", "View Bid Data", and "Import From MCACES").

a) "**OK**": Selecting this will **stop** the data entry process you are engaged in for this project, and will take you back to the current query.

b) "**Next**": Selecting this will start a **new entry at the level where you are working**. Thus: If you are in the initial "Add Projects" screen (which corresponds to the toolbar "Project

Level” button mention previously) and select the “Next” button, the HAG program will position you to **add a new project**.

If you are in one of the three lower level screens (Facility, System, or Sub-System) and select the “Next” button, the HAG program will position you to add line item data to the project **at the level you are working**. Thus:

 If you are at the 2<sup>nd</sup> level, the Facility level, and select “Next”, you will be in position to add a new Facility to the Project: or

 If you are at the 3<sup>rd</sup> level, the System level, and select “Next”, you will be in a position to add a new System to the Facility you are in; or

 If you are at the 4<sup>th</sup> level, the Sub-System level, and select “Next”, you will be in position to add a new Sub-System to the System you are in.

c) “**Add Under**”: Selecting this will position you to add a subset level to the level you are working. If you have finished adding data in an “Add Projects” screen and select “Add Under”, the HAG program will position you to make a 2<sup>nd</sup> level **Facility** entry. If you have finished adding data in a Facilities screen and select the “Add Under” button, the HAG program will position you to make a 3<sup>rd</sup> level **System** entry (top level of WBS 01 through 20). If you have finished adding data in Systems screen and select the “Add Under” button, the HAG program will position you to make a 4<sup>th</sup> level **Sub-System** entry (2<sup>nd</sup> level of WBS; e.g., 0101: Standard Foundations). This is the lowest entry level.

d) “**Import from MCACES**”: This program allows the direct import of estimates created in MCACES. The estimates must be edited as described below prior to importing.

1. From within MCACES, change the Government Estimate database to a “K Type Estimate” from the PREPARE Menu to maintain the same pricing as recorded in the Government Estimate.

2. Copy the MCACES Government Estimate to a new filename (temporary file) and edit the cost data in the temporary file before it is imported into HAG. The MCACES new temporary file should not replace the Government Estimate. The temporary file will be deleted after importing the cost data into HAG. **IMPORTANT** Open the HAG import cost data and [F4] Edit the Project Information Record, pull up the COMPUTE Menu and select UnLink Element, to remove all linking within the estimate. Press [Alt] [W] and make sure Contingencies and SIOH / S&A are set to zero. Turn off Rounding if it was used to print the Government Estimate. Rounding is a report function only and rounded numbers are not stored in the MCACES estimate.

3. Get a copy of Notice of Award (NOA) and identify all additives, deductives, and options that were awarded. Edit the MCACES cost data in the temporary file to include all awarded additives, etc. into the Base Bid. Everything not awarded has to be deleted from the cost data and Packed. Use Mark, Copy or Move to put the additives into the Base Bid. These additives must be also included in the System Level and Sub-System Level of the Base Bid. If

the WBS has been used properly, the Sub-System Title will always be the same, but you will have to check for the proper quantity. **Be careful about the use of different sub-contractors from the additive to the Base Bid.** Marking and Moving at the Sub-Systems Level could mix detail items that make up the assemblies, but as long as there is not a sub-contractor conflict it should retain the correct cost. If a complete building is an additive then identify the building as a facility at the Facility Level. If the awarded additives are in the Support Facilities, they should be included in the Support Facility 4. All quantities and units of measure for Facility, Systems, and Sub-Systems must be entered following the Military WBS. **See Appendix A for Systems UOM's and Definitions.** Each cost engineer/ technician should input these quantities his or her responsible area. Once the UOM's are imported into HAG, they can not be changed in HAG. HAG allows you to edit quantities at Systems and Sub-Systems levels but not UOM's. Write down the path and the MCACES estimate ID when importing into HAG.

4. After all awarded items are adjusted into the Base Bid and quantities and UOM's are corrected, exit the project and run a Project Indirect Summary at Level 3.

5. The MCACES temporary file is now ready for import into HAG. Select from the FILE Menu, Import from MCACES, Click **Total Contract Cost** (no escalation was applied to the Government Estimate).

6. If Government Estimate follows SASMIL Format, click **Uses ENG 3086 Format**, or, Systems Level 3. If Government Estimate reflects Bid Schedule at Level 1, click **Facilities at Level 1**. Then click OK.

7. Select the correct path to locate the HAG cost database to be imported.

8. You are now back to the Add Project window.

#### **D. ADD FACILITY LEVEL**

1) Cat Code vs. OSD Code: On the Facility Load Screen, one piece of information shown is the OSD Code (Office of the Secretary of Defense). The OSD Code only shows up on the Facility load screen and is not editable. The OSD Code is directly related to the Cat Code but does not show up on the Cat Code select list. For help in picking the correct Cat Code, use the OSD Code table at the end of this instruction. This OSD code is necessary if the project you are loading is intended to provide historical data that will be used to support the DOD Guidance Unit Cost (GUC) provided by NAVFAC and OSD. The GUC is used for developing the primary facility unit cost of most 1391/PCE's submitted in the MCON program. Note: The numeric digits of the OSD Code are the same as the facility type on the DOD guidance unit cost data that is approved each year by OSD.

2) Full Scope/Half Scope Box– Full Scope is the gross area of the building from outside of wall to outside of wall. Half Scope is any covered area that does not include exterior walls, such as a canopy or the exterior corridors on a BEQ. Placing an X in this box will cause the program to calculate the scope by taking the amount entered in the Full Scope field plus 0.5 times the amount entered in the Half Scope field. If the box is not checked, the Quantity entered will be

taken as the default scope.

3) Prorate Award Box– If you know both the Award Amount and the Government Estimate (GE) amounts for your project, do not check this box. If you only know the GE amounts for each system, checking this box will prorate the GE to the award amount that you loaded on the previous Project Level screen. Remember, if you have multiple facilities, you have to report each facility that’s associated with that approved cat code in the DD1391.

The GE block in the Facility Level screen shall not include any supporting facility costs. All of the supporting facility/ies cost should be reported in the Project level screen.

## **E. HELP**

At the far right of the tool bar is a Help button. Clicking it opens an extensive library of help topics. Use it to provide aid for topics not covered by this “Getting Started” document.

## **F. REPORTING OF HAG DATA:**

1. The award cost data shall be uploaded to this HAG website: <http://www.hnd.usace.army.mil/traces/HAG/HAGUpload.asp> within 30 days after award of a contract. Report award data by following this file name convention. For example, if New York District and Alaska District wanted to report their first submittal for FY03, then file must be named as: NAN03a.hgh for New York and POA03a.hgh for Alaska. If it’s their second submittal for FY03, then it should be NAN03b.hgh and POA03b.hgh and so forth.

2) To save your update for inclusion in the Master Database, go to the top menu bar and select “View” and then “Create Custom Query” from the pick list. A popup dialogue box will appear. The first two columns have accompanying pick lists, but the third column requires a user information entry. In the top row of the dialogue box, establish the following entries left to right:

- a) “Last Update”
- b) “is greater or equal to”
- c) “*date entry*” where *date entry* (01 May 2000) is the oldest data entry date that you want to include in the current update. The proper format of the date is critical.

**NOTE:** Every time you add or edit data in the HAG program, the date of entry is recorded. This makes it easy to pull out all projects that have been added or edited since the last time you sent in an update.

## **G. COMMENTS/SUGGESTIONS**

This HAG program has not been modified to allow a direct download from a SUCCESS estimate that's used by Navy.

A web-HAG version is currently under development. However, this initial version does not have an MCACES or MII interface. This MII to HAG interface is planned for the phase II release of the web-HAG program.

## HAG Load Sheet # 1 - **PROJECT LEVEL**

*Note: To facilitate accurate data entry, request a copy of the approved DD form 1391 from your PM and the bid award data/bid abstract from your Contracting Office.*

### **Emboldened Data Elements Are Required Record Entries For This Level** **# Data Element Name or Description Entry Examples: Enter In Format Shown**

1. **Project Number. Army – from approved DD Form 1391 (usually a 5-digit number)**
2. **Project Name (if the number of letters exceeds the space provided, type as many letters in as possible) from DD Form 1391: Example: Squadron Operations Facility**
3. **Award Date DD/MM/YYYY (format is critical): Ex: 04/01/2000**
4. **Installation UIC. Click on Select button at bottom of screen. Use the Radio button to select either CONUS or OCONUS, then select from the Popup Table the Country or State, lastly select the Installation Code.**
5. District - filled in automatically via #4 entry
6. Division - filled in automatically via #4 entry
7. Service - filled in automatically via #4 entry: Ex: Army, Air Force or Navy
8. **Program Year: A four digit number (also FY) Ex: 2002**
9. Contract Number Appropriate Army: DACA xx-C-xxxx
10. Point of Contact (for Estimate) – type or pick from HAG list (usually the cost engineer responsible for the GE).
11. Office. Office Name/Code Army – filled automatically via #10
12. Office Phone Number Army – filled automatically via #10
13. Funding Type. A pick list (see attached list): Ex: MCA, NAF, AFH, etc
14. Est. Prep. A pick list: AE or In-house
15. Estimate Type. A pick list MCACES, parametrics, etc
16. Contract Type. A pick list (see attached list) IFB, RFP, etc

17. Contractor – Prime Contractor name (from your contract award data/bid abstract from your Contracting Office)
18. A/E: Name of consulting firm that prepared plans/specs.
19. Construction Duration. This must be the same figure that's in your contract specs.
20. Contract Award Amount. Includes all awarded additive items. Enter digits only.
21. CA CWE (CAC). Calculated after # 20 entry: Contract Award (CA) CWE is calculated with award amount rather than GE. Then add Contingency + S&A. Award contingency nowadays is not the same as pre-award contingency. Check with your PM as to award contingency rate or amount at award.
22. Government Estimate. Includes GE price for same scope as Award Amount as in item 20. Enter digits only. Contingency and S&A not included.
23. Program Amount. Enter digits only. Ask PM for most current PA.
24. Support Award: Supporting Facilities (beyond 5' of primary facility). Prorated Award Amount based on GE, not including Contingency and S&A
25. No.of Bidders – Enter directly or go to 'View Bid Data' to enter amounts and contractors.
26. BA CWE. Calculated after # 25 entries: Current Working Estimate calculated with average bid amount rather than GE (Used to evaluate estimate)
27. Notes. Provide general description of entire project similar to block 10 of 1391. Use the HAG 2nd level entry screen Notes field to describe each separate facility (building). If imported from MCACES, begin with file ID. Notes can be typed and proofed in 'word' then 'copy and pasted' into HAG notes. Example: A three story facility with concrete foundation, masonry walls with exterior brick veneer, sloped roof system, fire protection system, elevator, asbestos removal, and necessary support. Demolish one facility (1250 sf).

## HAG Load Sheet # 2 – FACILITIES LEVEL

### **Emboldened Data Elements Are Required Record Entries For This Level**

# FOR EACH SEPARATE FACILITY: Entry Examples: *Enter In Format Shown*

**1. Category Code.** Use Select button to choose facility type for service, Army, Air Force or Navy. HAG will default to service specific CATCODES. Cross check with cat code use in the approved DD Form 1391. For example: 131-24 (entered automatically via pick list selection – See Instructions concerning correct cat code based on OSD code)

2. Facility Description filled in automatically via #1 entry, edit as needed.
3. Construction Type: A pick list NPM (New Permanent Military)
4. Quantity. Enter digits only (gross square feet)
5. Unit of Measure SF
6. Full or Half Scope. A checkbox Scope to be calculated using Full Scope amount plus 0.5 times Half Scope Amount; The default for this field is #4.
7. Full Scope Entry (entry if Full/Half Scope checked)
8. Half Scope Entry (entry if Full/Half Scope checked)
9. Prorate Amount. If you know both the Award Amount and the GE, do not check this box. If you only know the GE for each system, checking this box will prorate the GE to the award amount that you loaded in the Project Level screen.
10. Award Amount – based on prorated primary facility from GE , digits only
11. Government Estimate – Primary Facility (each facility should be separate if multiple facilities - digits only). Because you are in the Facility Level screen, this GE shall not include any supporting facility costs. All of the supporting facility cost should be reported in the Project level screen.

## FACILITY LISTING:

1. FAC. The facility identifier: Example: 2100
2. Facility Description: Example: Satellite Communications Ground Terminal
3. Category Code – only available at Fac. Level 131-132. Cross check with your DD Form 1391.
4. OSD Code. Only the cat codes that have an assigned OSD Code will be used for development of the DOD unit cost guidance numbers. If the facility that you are loading will provide valuable historical data for DOD Guidance, make sure to pick a cat code that has an assigned OSD Code, even if this is not the correct cat code for your project. See the OSD Code list at the end of this instruction.

Note: this OSD list needs to be updated. Forward any corrections or additions to POC.

5. Unit Cost. Enter digits only. Example: 115
6. Unit of Measure: Ex: SF
7. Award Amount. Enter digits only
8. Notes. Provide a General Description of each facility (building). Can be copied/pasted from word processing program. Example: This project will construct a two story building on reinforced concrete pile foundation. Construction features for the building consist of reinforced concrete floors, metal frame and Concrete Masonry Unit (CMU) walls, steeltruss ceiling, built-up roofing, fire sprinkler system in administrative areas. The hangar will contain administrative, equipment and maintenance space.

#### HAG Load Sheet # 3 – SYSTEMS LEVEL: WBS Level One

#### **Emboldened Data Elements Are Required Record Entries For This Level**

# For Each System in *One* Particular Facility Entry Examples: ***Enter In Format Shown***

1. **System Type. A Pick List** : Example: Superstructure
2. Prorate Award. Check the box if award amount is unknown; will be prorate based on GE
3. **Quantity. Enter digits only**, say 100000
4. **Award Amount (if unknown, check prorate box)**
5. Government Estimate. Enter GE amount.
6. Notes. Provide a general description of the System Level that describes what the unit cost includes. Also provide a description of unusual scope or features. Example: Steel frame with CMU walls and brick facing to 10', metal paneling to roofline.

#### **Definitions - Contract Types:**

Design – Build: Contractor provides both design and construction from minimal plans and specs.

8A – refer to a set-aside Small Business program (small business minority contractor). Generally solicited out as an Request For Proposal (RFP) and may be a negotiated contract.

IDIQ Indefinite Quantity Contract (usually solicited out as RFP)

IFB - Invitation for Bid – Open to all contractors, very competitive and award usually to lowest bidder.

RFP Request for Proposal – Depending on solicitation requirements, technical and price evaluations are conducted. Award maybe based on best value to the gov't and not to the lowest bidder.

**Funding Types:**

- AAFES - Army and Air Force Exchange Service
- AFH - Army Family Housing
- AFFH - Air Force Family Housing
- BCA - Base Closure, Army
- BCAF -Base Closure, Air Force
- BCN - Base Closure, Navy
- DODM - Department of Defense Medical
- MCA - Military Construction, Army
- MCAF - Military Construction, Air Force
- MCN - Military Construction, Navy
- MCAFES - Military Construction, Air Force Reserve
- MCAR - Military Construction, Army Reserve
- MCNR- Military Construction, Navy Reserve
- NAF - Non Appropriated Funds
- NFH - Navy Family Housing
- UMMCA - Unspecified Minor Military Construction, Army

**OSD Codes**

**Note:** Cat Codes that are followed by a letter are specific to that Service only  
 All other Cat Codes are common to all Services

Army (A)	Navy (N)	Air Force (F)	OSD	UM	Description
Army	AF	Navy			
13124	131-132	13124N	1	SF	Satellite Communications Ground Terminal
14140	141-40	14140N	2A	SF	Aircraft Ops Bldg w/o Tower
14110	141-453	14110N	2A	SF	Airfield Operations Building
14114	141-489	14114	2A	SF	CIDC Field Operations Building
141446	141-446	141446	2A	SF	Combat Center Building
141447	141-447	141447	2A	SF	Direction Center Facility
141449	141-449	141449	2A	SF	Direction/Combat Center Facility
141454	141-454	141454	2A	SF	Special Operations Facility
141456	141-456	141456	2A	SF	Air Force Security Service Operations
141481	141-481	141481	2A	SF	AC&W Dewline Operations Bldg
141911	141-911	141911	2A	SF	Missile Operations Building
14130	141-30	14130N	2B	SF	Aircraft Line Ops Bldg with Tower
14170	141-70	14170N	2B	SF	Control Tower
130142	130-142	141-20	3	SF	AF Fire/Crash Rescue Station

14112	141-782	141-12N	4A	SF	Air Cargo Terminal
14112	141-12	141-12	4A	SF	Aviation Unit Operations Building
14115	141-629	14115	4A	SF	Weather Station
141626	141-626	141626N	4A	SF	Weather RAWINSONDE
141627	141-627	141627N	4A	SF	Weather Instrument Shelter
141635	141-635	141635	4A	SF	ROCKETSONDE Control Building
14320	143-20	143-20	4A	SF	Ordnance Operations Building
14340	14340	143-40N	4A	SF	Computer Program Operations Center
14182	14182A	14182A	4B	SF	Brigade Headquarters Building
14183	14183A	14183A	4B	SF	Battalion Headquarters Building
14185	14185A	14185A	4B	SF	Company Headquarters Building
14365	143-65	14365N	4B	SF	Operations Control Center
61072	61072	610-72	4C	SF	Battalion/Squadron Hdqtrs Bldg
141753	141-753	141753N	4C	SF	Squadron Operations Facility
61071N	61071N	610-71	4C	SF	Regimental-Group Headquarters
61073N	61073N	610-73	4C	SF	Company-Battery Headquarters
171152F	171-152	171152F	5A	SF	Academic Lecture Hall
17115	171-158	17115A	5A	SF	Band Training Building
17119	17119A	17119A	5A	SF	Organizational Classroom
17120	171-822	171-20	5A	SF	General Instruction Building
171211F	171-211	171211F	5A	SF	Flight Training Classroom
171213F	171-213	171213F	5A	SF	UPT/UNT Flight Training Classroom
17125N	17125N	171-25	5A	SF	Auditorium
171443F	171-443	171443F	5A	SF	Reserve Forces General Training Sprt
171447F	171-447	171447F	5A	SF	Reserve Forces Com & Electronic Trng.
171449F	171-449	171449F	5A	SF	Reserve Forces Aeromedical Evacuation Training
171813F	171-813	171813F	5A	SF	Safety Education Facility
171815F	171-815	171815F	5A	SF	NCO Professional Military Education Center
171833F	171-833	171833A	5A	SF	Basic Military Training
171844F	171-844	171844F	5A	SF	Officer Training
171875F	171-875	171875F	5A	SF	Munitions Load Crew Training
73018	730-772	73018A	5A	SF	Religious Education Facility
17131	17131A	17131A	5B	SF	Compact Item Repair Instructional Building
17132	17132A	17132A	5B	SF	General Item Repair Instructional Building
17133	17133A	17133A	5B	SF	Vehicle Maintenance Instructional Building
17134	17134A	17134A	5B	SF	Aircraft Maintenance Instructional Building
17135	17135A	171-35	5B	SF	Laboratory Instructional Building
17136	17136A	17136A	5B	SF	Automation-Aided Instructional Building
17137	17137A	17137A	5B	SF	Material Handling Instructional Building
17138	17138A	17138A	5B	SF	Limited Use Instructional Building
171611F	171-611	171611F	5B	SF	Cryptologic Training
171618F	171-618	171618F	5B	SF	Field Training Facility
171621F	171-621	171621F	5B	SF	Technical Training Classroom
171627F	171-627	171627F	5B	SF	AETC Technical Training Support
171628F	171-628	171628F	5B	SF	Launch Operations Training Facility
171712F	171-712	171712F	5B	SF	Target Intelligence Training
171851F	171-851	171851F	5B	SF	Air University Professional/Technical Education
171853F	171-853	171853F	5B	SF	US Air Force Academy Academic Training

171873F	171-873	171873F	5B	SF	Aerial Port Training Facility
510126F	510-126	510126F	5B	SF	Medical/Dental Education and Training
17140	171-445	171-40	6	SF	Reserve Center Building
17142	17142A	17142A	6	SF	National Guard/Reserve Center Building
17141	17141A	17190A	6	SF	Armed Forces Reserve Center Building
141183F	141-183	141183F	7A	SF	Alert Hangar, Fighter Aircraft
141185F	141-185	141185F	7A	SF	Helicopter Rescue & Recovery Hangar
141232F	141-232	141232F	7A	SF	Aerial Delivery Facility
141786F	141-786	141786F	7A	SF	Deploy Processing Facility
21114	21114A	21114A	7A	SF	Aircraft Maintenance Bay
211116F	211-116	211-05	7A	SF	Hangar, Maintenance Depot
21116	21116A	211-16A	7A	SF	Hangar Shop Space
211152F	211-152	211-10	7A	SF	Aircraft General Purpose Shop
21110	21110A	21110A	7A	SF	Aircraft Maintenance Hanger
21113	21113A	21113A	7A	SF	Aircraft Parts Storage
211177F	211-177	211177F	7A	SF	Small Aircraft Maintenance Dock
21120	21120A	21120A	7A	SF	Aircraft Component Maintenance Shop
211154F	211-154	211154F	7A	SF	Aircraft Maintenance, Organizational Shop
211147F	211-147	211147F	7A	SF	Aircraft Weapons Calibration Shelter
221221F	221-221	221-221F	7A	SF	Production Aircraft
221228F	221-228	221228F	7A	SF	Aircraft Final Assembly Production
22125	22125A	22125A	7A	SF	Aircraft Production Structure
44210	44210A	44210A	7A	SF	Aircraft Production Parts Storage, Installation
141785F	141-785	141785F	7B	SF	Fleet Service Terminal
171625F	171-625	171625F	7B	SF	High-Bay Tech Training Facility
21102N	21102N	211-02	7B	SF	Nose Hangar
211111F	211-111	211111F	7B	SF	Large Aircraft Maintenance Hangar
21114N	21114N	211-14	7B	SF	Aircraft Rework Shop
211173F	211-173	211173F	7B	SF	Large Aircraft Maintenance Dock
211174F	211-174	211174F	7B	SF	Consolidated Aircraft Maintenance
211175F	211-175	211175F	7B	SF	Medium Aircraft Maintenance Dock
21410	21410A	214-20	8A	SF	Vehicle Maintenance Shop
214425F	214-425	214-10	8B	SF	Tracked Vehicle Maintenance Shop
21412	21412A	21412A	8B	SF	Maintenance Storage, Non-DOL/DEH/DPW
21117	21117A	21117A	8C	SF	Avionics Maintenance Shop, Installation
21145N	21145N	211-45	8C	SF	Avionics Shop
21710	21710A	217-10	8C	SF	Electronics Maintenance Shop, Depot Level
21712	21712A	21712A	8C	SF	COMM/Electronics Quality Assurance/Calibration Facility, Depot L
217722F	217-722	21712A	8C	SF	ICBM/Tactical Air Control Communications Shop
21730	21730A	217-30	8C	SF	Radar Maintenance Shop, Depot Level
217712F	217-712	217712F	8C	SF	Avionics Shop
217713F	217-713	217713F	8C	SF	ECM POD Shop & Storage
217735F	217-735	217735F	8C	SF	Electrical Overhaul and Test Depot
217736F	217-736	217736F	8C	SF	Radome Overhaul & Test Depot
217742F	217-742	217742F	8C	SF	Air Force Communications Service Maint Fac
217752F	217-752	217752F	8C	SF	Meteorological Equipment Shop
217762F	217-762	217762F	8C	SF	Navigational Aids Shop
227227F	227-227	227227F	8C	SF	Radio & Radar Equipment Plant
227228F	227-228	227228F	8C	SF	Navigation Guidance Systems Prod
213363F	213-363	213363F	8D	SF	Marine Maintenance Shop
21885	21885A	21885A	8D	SF	Maintenance Shop, General Purpose
21880N	21880N	218-80	8D	SF	Field Maintenance Shop General Supply
218827F	218-827	218827F	8D	SF	Furniture Repair Shop, Overseas
21910	21910A	219-10	8D	SF	Engineering/Housing Maintenance Shop
219943F	219-943	219943F	8D	SF	Base Engineer Pavements & Grounds Facility
219944F	219-944	219944F	8D	SF	Base Engineer Maintenance Shop

219945F 219-945 219945F 8D SF Base Engineer Hospital Maintenance Shop  
 21175N 21175N 211-75 8E SF Parachute/Survival Equipment Shop  
 21881 218-852 21881A 8E SF Airborne Equipment/Parachute Repair Shop  
 21120N 221-231 211-20 8F SF Aircraft Engine Overhaul Shop  
 211157F 211-157 211157F 8F SF Jet Engine Inspection and Maintenance Shop  
 211251F 211-251 211251F 8F SF Turbine Depot Shop  
 211252F 211-252 211252F 8F SF RAM/AIR Depot Shop  
 211253F 211-253 211253F 8F SF Alternator Drive Overhaul and Test Depot Shop  
 211256F 211-256 211256F 8F SF Engine Test and Storage Depot  
 211271F 211-271 211271F 8F SF Instrument Overhaul Depot  
 211254F 211-254 211254F 8F SF Aircraft and Engine Access Overhaul Depot  
 21140 21140A 21140A 8F SF Aircraft Engine Test Facility  
 21141 21141A 21141A 8F SF Aircraft Engine Test Structure  
 212216F 212-216 212216F 8F SF Missile Service Shop  
 212219F 212-219 212219F 8F SF Missile Battery Shop  
 221222F 221-222 221222F 8F SF Production Engines  
 221226F 221-226 221226F 8F SF Aircraft Engine Component Production  
 221227F 221-227 221227F 8F SF Aircraft Engine Test Production  
 228232F 228-232 228232F 8F SF Heavy Forgings MFG Production  
 228233F 228-233 228233F 8F SF Heavy Extrusions MFG Production  
 42410 42410A 42410A 9B SF Battery Cold Storage Building  
 43110 43110A 431-10 9B SF Cold Storage Facility, Depot Level  
 43211 432-283 43211A 9B SF Cold Storage Facility, Installation  
 730724F 730-724 730724F 9B SF Ice Plant  
 730725F 730-725 730725F 9B SF Ice Cream Plant  
 74024N 74024N 740-24 9B SF Commissary Cold Storage (Detached)  
 21870 218-842 21870A 9C SF Maintenance Storage, DOL/DEH/DPW  
 44110 441-758 441-10 9C SF Storage Facility, General Purpose, Depot Level  
 44220 442-758 44220A 9C SF Storage Facility, General Purpose, Installation  
 74055 740-387 740-86 9C SF Exchange Warehouse  
 141787F 141-787 141787F 9D SF Consolidation/Containerization Point  
 159353F 159-353 159353F 9D SF Transit Cargo Warehouse  
 44130 44130A 441-20 9D SF Controlled Humidity Warehouse, Depot Level  
 442768F 442-768 442768F 9D SF Warehouse, Forms & Publications, Base  
 442769F 442-769 442769F 9D SF Housing Supplies and Storage Facility  
 730147F 730-147 730-11 9D SF Fire Hose Drying Structure  
 740397F 740-397 740397F 9D SF Central Exchange Warehouse  
 22616 226-226 22616A 9E SF Explosive Manufacturing Plant  
 42183 422-258 421-35 9E SF General Purpose Magazine, Depot Level  
 422253F 422-253 422253F 9E SF Multi-cubicle Magazine Storage  
 422256F 422-256 422256F 9E SF Rocket Checkout and Assembly Storage  
 422257F 422-257 422257F 9E SF Segregated Magazine Storage  
 422271F 422-271 422271F 9E SF Barricaded Storage Module  
 42240 42240A 42240A 9E SF Fixed Ammunition Magazine, Installation  
 42250 42250A 42250A 9E SF Special Weapons Magazine, Installation  
 42260 422-259 42260A 9E SF Guided Missile Magazine, Installation  
 42283 42283A 42283A 9E SF General Purpose Magazine, Installation  
 171141F 171-141 171141F 9F SF Air Force Academy Armory  
 222227F 222-227 222227F 9F SF Guided Missile Solid Propellant  
 42120 42120A 421-22 9F SF High Explosive Magazine, Depot Level  
 42215 422-264 42215A 9F SF High Explosive Magazine, Installation  
 422273F 422-273 422273F 9F SF Steel Arch Magazine  
 51010 510-001 510-10 10A SF Medical Center/Hospital  
 171450F 171-450 171450F 10C SF Reserve Component Medical Training  
 510411F 510-411 51020A 10C SF Air Force Clinic  
 53010N 53010N 530-10 10C SF Clinic Out-Patient

55010N 55010N 550-10 10C BD Medical Clinic  
55010 55010A 55010A 10C SF Troop Dispensary/Health Clinic  
550147F 550-147 550147F 10C SF Medical Aid Station  
54010 540-243 540-10 10E SF Dental Clinic  
141649F 141-649 141649F 11A SF Air Force Global Weather Center  
510125F 510-125 510125F 11A SF Medical Administration Building  
510915F 510-915 510915F 11A SF Patient Welfare  
61010N 61010N 610-10 11A SF Administrative Office  
610111F 610-111 610111F 11A SF Area Defense Council Office  
610112F 610-112 610112F 11A SF Law Center  
610119F 610-119 610119F 11A SF Family Housing Management Office  
610121F 610-121 610121F 11A SF Vehicle Operations Administration  
610123F 610-123 610123F 11A SF Air Force Plant Administration Office  
610127F 610-127 610127F 11A SF Base Engineer Administration  
610128F 610-128 610128F 11A SF Base Personnel Office  
610129F 610-129 610129F 11A SF Weapon System Maint Management Facility  
610142F 610-142 610142F 11A SF Traffic Management Facility  
610144F 610-144 610144F 11A SF Munitions Maintenance Administration  
610241F 610-241 610241F 11A SF Dormitory Orderly Room  
610122F 610-122 61030A 11A SF Base Supply Administration  
610311F 610-311 610311F 11A SF Documentation Staging Facility  
610811F 610-811 61040A 11A SF Administrative Office, Non Air Force  
61050 61050A 61050A 11A SF Administrative Facility, General Purpose  
610913F 610-913 61060A 11A SF Disaster Preparedness  
61065 61065A 61065A 11A SF Technical Library  
610675F 610-675 610675F 11A SF Logistics Facility Depot Operations  
610911F 610-911 610911F 11A SF Social Actions Facility  
610915F 610-915 610915F 11A SF Air Force Office of Special Investigation  
73073 730-443 73073A 11A SF Post Office, Main  
740717F 740-717 740717F 11A SF Red Cross Building  
74029N 74029N 740-29 11A SF Area-Regional Exchange Administration Bldg.  
740459F 740-459 740459F 11A SF Transient Lodging Support Building  
13115 13115A 13115A 11B SF Information Systems Facility  
13140 13140A 13140A 11B SF Information Systems Processing Center  
13131 610-711 610-20 11B SF Information Processing Center  
610243F 610-243 610243F 11C SF Group Headquarters  
610249F 610-249 610249F 11C SF Wing Headquarters  
610281F 610-281 610281F 11C SF Headquarters Center  
610282F 610-282 610282F 11C SF Headquarters Air Force  
610284F 610-284 610284F 11C SF Headquarters Major Command  
610285F 610-285 610285F 11C SF Headquarters Numbered Air Force  
610286F 610-286 610286F 11C SF Headquarters Names/Numbered Air Force  
610287F 610-287 610287F 11C SF Specified Headquarters  
61070N 61070N 610-70 11C SF Division/Wing HQ (Marine Corps)  
72111 721-315 721-11 12 SF Enlisted Unaccompanied Personnel Housing  
72181 72181A 72181A 12 SF Trainee Barracks  
72120 72120A 72120A 12 SF Transient Unaccompanied Personnel Housing  
721311F 721-311 721311F 12 SF Recruits Dormitory  
721312F 721-312 721312F 12 SF Enlisted Unaccompanied Personnel Housing  
723155F 723-155 723155F 12 SF Dormitory Dayroom  
730782F 730-782 730782F 12 SF Dependent School Dormitory  
72170 72170A 72170A 13 SF Unaccompanied Personnel Housing, Senior NCO  
72410 72410A 72410A 13 SF Unaccompanied Officers Quarters, Military  
724415F 724-415 724-11 13 SF Officer's Quarters  
72411 724-417 72411A 13 SF Unaccompanied Officers Quarters, Military Transient  
724433F 724-433 724433F 13 SF Cadet Quarters

510212F 510-212 510212F 14 SF Food Service  
714122F 714-122 714122F 14 SF Attendants Dining Facility  
721215F 721-215 721215F 14 SF Dining Hall in Airman Dormitory  
722351F 722-351 722-10 14 SF Enlisted Dining Hall - Detached  
72210 72210A 72210A 14 SF Dining Facility  
722356F 722-356 722356F 14 SF Officer Dining Hall - Detached  
723385F 723-385 723385F 14 SF Central Preparation Kitchen  
72430N 72430N 724-30 14 SF Commissioned Officers Mess  
730381F 730-381 730-381F 14 SF Dependents School Dining Hall  
73010 730-142 730-10 15 SF Fire Station  
730773F 730-773 73020A 16 SF Chapel Center  
73017 730-771 730-83 16 SF Chapel  
74021 740-266 740-23 17 SF Commissary  
74083N 74083N 740-83 17 SF Commissary Distribution Center  
730789F 730-789 730-45 18A SF Dependent Nursery School  
74014 740-884 740-74 18A SF Child Development Center  
74025 730-441 74025A 18B SF Continuing Education System Facility  
74088N 74088N 740-88 18B SF Educational Services Office  
74066 740-883 740-55 18C SF Youth Center  
74025N 740-253 740-25 18D SF Family Services Center  
71010N 71010N 710-10 19 FA Family Housing, Navy  
71111 71111A 71111A 19 FA Family Housing, General Officer  
71112 71112A 71112A 19 FA Family Housing, Colonel  
711131F 711-131 711131F 19 SF Family Housing Lanham  
71113 71113A 71113A 19 FA Family Housing, LT Colonel and Major  
711161F 711-161 711161F 19 SF Family Housing, Deutchmark  
71116 71116A 71116A 19 FA Family Housing, Junior NCO/Enlisted  
711231F 711-231 711231F 19 FA Family Housing USA  
71115 71115A 71130A 19 FA Family Housing, Senior NCO  
71114 71140A 71140A 19 FA Family Housing, Company Grade and Warrant Officer  
711181F 711-181 71190A 19 FA Family Housing Other  
714128F 714-128 714128F 19 SF Attendant Quarters  
730151F 730-151 730151F 19 SF Forestry Guard Station  
730775F 730-775 730775F 19 SF Rectory  
74028 740-674 740-45 20 SF Physical Fitness Center  
740673F 740-673 740673F 20 SF Field House  
74001 74001N 740-01 21 SF Exchange Retail Store  
74003N 740-386 740-03 21 SF Exchange Administration  
74062 74062A 74062A 21 SF Fast Food/Snack Bar  
74008N 74008N 740-08 21 SF Exchange Food Store  
74056 740-389 74056A 21 SF Exchange Service Outlet  
740111F 740-111 740111F 21 SF Enclosed Mall  
74054 740-385 74054A 21 SF Exchange Maintenance Shop  
740262F 740-262 740262F 21 SF Book Store  
740379F 740-379 740379F 21 SF Exchange Amusement Center  
740396F 740-396 740396F 21 SF Central Exchange Administration  
740398F 740-398 740398F 21 SF Central Exchange Support Facility  
74053 740-388 74053A 21 SF Exchange Main Retail Store  
74058 74058A 74058A 21 SF Exchange Concession  
74048 740-618 74048A 22 SF Officer Open Dining Facility  
740613F 740-613 740613F 22 SF Cadet Open Mess  
740614F 740-614 740614F 22 SF Civilian Open Mess  
740615F 740-615 740615F 22 SF Consolidated Open Mess  
74063N 74063N 740-63 22 SF Enlisted Personnel Club  
74047 740-617 740-64 22 SF Enlisted Open Dining Facility  
74046 74046A 740-67 22 SF Consolidated Open Dining Facility

740-612F 740-612 740-612F 22 SF Airmen Open Mess  
171356F 171-356 171356F 23 SF Technical and Professional Library  
74040 74040A 74040A 23 SF Library Branch  
74041 740-675 740-76 23 SF Library Main  
740733F 740-733 74015A 24 SF Civilian Fund MWR Building  
740678F 740-678 740-46 24 SF Skating Rink  
74068 740-668 740-54 24 SF Recreation Center  
740669F 740-669 740669F 24 SF Multipurpose Recreation Building  
740681F 740-681 740681F 24 SF Cadet Social Center  
740732F 740-732 740732F 24 SF Restaurant Fund MWR Facility  
74075 740-316 74075A 24 SF Recreational Support Facility  
74011 740-671 740-40 25 SF Bowling Center  
730788F 730-788 730788F 26A SF Dependent Kindergarten School  
73046 730-784 730-55 26A SF Dependent School - Grade School  
730786F 730-786 730786F 26B SF Dependent Intermediate School  
73060N 730-785 730-60 26C SF Dependent School - High School  
730783F 730-783 730783F 26C SF Dependent School Detached Support  
74020N 74020N 740-20 27 SF Temporary Lodging  
74032 74032A 74032A 27 SF Guest House  
740443F 740-443 740443F 27 FA Transient Lodging Facility, Appropriated  
740455F 740-455 740455F 27 SF Transient Family Aerial Port  
740457F 740-457 740457F 27 SF Transient Lodging Facility Non-App