



**DEFENSE
UTILITY
ENERGY
REPORTING
SYSTEM**

November 1993

**Office of the Under Secretary of Defense
for Acquisition**



THE DEPUTY UNDER SECRETARY OF DEFENSE

WASHINGTON, DC 20301-3000

ACQUISITION

November 24, 1993

(DUSD/ES)

FOREWORD

This Manual is reissued under the authority of DoD Directive 5126.46, "Defense Energy Information System (DEIS)," December 2, 1987. Its purpose is to provide clear, reliable, timely, accurate, and objective energy information; prescribe instructions for the preparation and submission of utility energy data to support the Defense Utility Energy Reporting System (DUERS) of DEIS; and furnish information on the use of the DUERS.

DoD 5126.46-M, "Defense Energy Information System," February 1990, is hereby canceled.

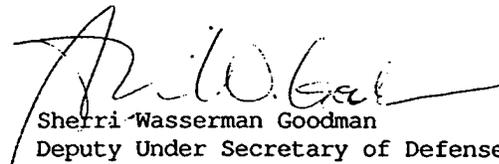
This Manual applies to the Office of the Secretary of Defense (OSD), the Military Departments, and the Defense Agencies (hereafter referred to collectively as "the DoD Components.") The term "Military Services," as used herein, refers to the Army, the Navy, the Air Force, and the Marine Corps.

This Manual is effective immediately and is mandatory for use by all the DoD Components. Supplementary instructions by the DoD Components are discouraged and should only be issued when necessary to define terms in support of the DUERS or for Service-unique requirements.

Send recommended changes to this Manual through channels to:

ASSISTANT DEPUTY UNDER SECRETARY OF DEFENSE
CONSERVATION & INSTALLATIONS
400 ARMY NAVY DRIVE, SUITE 206
ARLINGTON, VIRGINIA 22204-2884

The DoD Components may obtain copies of this Manual through their own publications channels. Other Federal Agencies and the public may obtain copies from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA. 22161.


Sherri Wasserman Goodman
Deputy Under Secretary of Defense
(Environmental Security)

Environmental Security -- Defending Our Future

TABLE OF CONTENTS

	<u>Page</u>
FOREWORD	2
TABLE OF CONTENTS	3
REFERENCES	5
CHAPTER 1. - GENERAL INFORMATION	6
C1.1. DUERS	6
C1.2. DEIS	6
CHAPTER 2. - REPORTING REQUIREMENTS	9
C2.1. DEFENSE UTILITY ENERGY REPORTING SYSTEM	9
C2.2. INFORMATION REQUIREMENTS	13
CHAPTER 3. - DUERS DATA TRANSMISSION	14
C3.1. DEFENSE DATA NETWORK	14
C3.2. FLOPPY DISKETTE SUBMISSION	14
C3.3. TAPE SUBMISSION	15
C3.4. DoD AUTOMATIC ADDRESS CENTER (DoDAAC)	15
CHAPTER 4. - DUERS REPORTING FORMAT	16
C4.1. INVENTORY AND CONSUMPTION RECORD	16
C4.2. INDUSTRIAL PROCESS ENERGY RECORD	19
C4.3. WEATHER DATA RECORD	20
C4.4. POPULATION RECORD	22
C4.5. BUILDING AND SQUARE FOOTAGE RECORD	23
C4.6. ENERGY CERTIFICATION RECORD	25
C4.7. INDUSTRIAL PROCESS PRODUCTIVITY	27
RECORD	
CHAPTER 5. - PRODUCTS, PRODUCT CODES, AND BTU CONTENT VALUES FOR DUERS REPORTING	30
CHAPTER 6. - USE OF THE DUERS	32
C6.1. DUERS USER'S GUIDE	32
C6.2. ACCESS AND PASSWORDS TO THE DUERS	32

TABLES

C1.T1.	DEFENSE UTILITY ENERGY REPORTING SYSTEM	8
C4.T1.	MEB-2 RECORD	18
C4.T2.	MEB-3 RECORD	19
C4.T3.	MEB-4 RECORD	21
C4.T4.	MEB-5 RECORD	22
C4.T5.	MEB-6 RECORD	24
C4.T6.	MEB-7 RECORD	26
C4.T7.	MEB-8 RECORD	27
C4.T8.	SUMMARY OF DUERS FORMATS	28

REFERENCES

- (a) Deputy Secretary of Defense Memorandum, "Defense Industrial Facilities Energy Management," March 13, 1991
- (b) Executive Order 12759, "Federal Energy Management," April 17, 1991
- (c) Section 2865 of title 10, United States Code
- (d) Comptroller of the Department of Defense and Assistant Secretary of Defense (Production and Logistics) Memorandum, "Energy Cost Savings Identification, Retention, and Reuse," June 9, 1992
- (e) Principal Deputy Assistant Secretary of Defense (Production and Logistics) Memorandum, "Correction and Clarification of Procedures for Energy Savings Identification, Retention, and Reuse," February 3, 1993

C1. CHAPTER 1
GENERAL INFORMATION

C1.1. DUERS

The Defense Utility Energy Reporting System (DUERS) is an automated management information system with which the Department of Defense monitors its supplies and consumption of energy. It was originally fielded in February 1974 as the Defense Energy Information System (DEIS) to respond to the need to manage DoD energy resources more closely in the aftermath of the 1973 Arab oil embargo. It is primarily used as an energy management tool, providing information about the Department of Defense's inventory and consumption of utility energy. The DUERS is used to:

C1.1.1. Help formulate energy policy.

C1.1.2. Prepare management reports for senior Defense managers that address energy-related problems and anticipate those requiring early action.

C1.1.3. Measure energy conservation achievements and determine progress toward energy goals and targets.

C1.1.4. Provide DoD energy data to Congress, the Department of Energy, and other Federal Agencies.

C1.1.5. Provide immediate, on-line access to DoD energy data for all valid users.

C1.1.6. Identify energy usage and consumption trends.

C1.1.7. Ensure that all DoD Components' DEIS data subsystems meet DUERS reporting requirements.

C1.1.8. Export and download energy data to automated systems and microcomputer programs for local, regional, and global analysis.

C1.2. DEIS

The DEIS consists of two related data systems -- the Defense Mobility Energy Reporting System (DMERS) (DoD 5126.46-M-1), and the Defense Utility Energy Reporting System (DUERS) (DoD 5126.46-M-2).

C1.2.1. The DMERS provides information on inventory and issues of petroleum products throughout the Department of Defense.

C1.2.2. The DUERS identifies inventory for coal, propane and/or liquefied petroleum gas, and wood. It also identifies the consumption of water and all other purchased utility energy (electricity, fuel oil, natural gas, steam and hot water, coal, and propane and/or liquefied petroleum gas) and renewable energy sources. It compares energy consumption against baseline consumption periods to determine energy conservation achievements. DUERS contains cost data on utility energy and environmental data such as degree-days.

C1.3. The DUERS is intended to provide timely, mission-essential energy management data. The formats of this report were developed to ease preparation by reporting activities, provide for rapid transmission, and simplify automated data processing. Table C1.T1. illustrates the types of data fields and displays in the DUERS.

Table C1.T1. DEFENSE UTILITY ENERGY REPORTING SYSTEM

<u>Products</u>	Electricity Fuel Oil Natural Gas Coal Steam Propane and/or Liquefied Propane Gas Renewable Energy Sources Water Potable Water Recycled
<u>Fields</u>	Inventory (for Coal, Propane and/or Liquefied Petroleum Gas, Wood) Consumption BTU Content Conversion Factor Process Energy Consumption Cost Environmental Data
<u>Summaries</u>	Reporting Activities Major Commands Military Services Defense Agencies States and Countries CONUS and Worldwide

C2. CHAPTER 2

REPORTING REQUIREMENTS

This Chapter describes the minimum reporting requirements -- in terms of data elements and reporting frequency -- needed to support the DUERS.

C2.1. DEFENSE UTILITY ENERGY REPORTING SYSTEM

The DUERS collects data on DoD utility energy consumption for buildings and facilities, family housing, mobility substitution energy, and industrial process energy facilities throughout the world.

C2.1.1. General. The DUERS provides information on the inventory and consumption of all purchased utility and renewable energy sources at all DoD activities for both facility and industrial process energy. This includes energy consumed by all tenants, customers, and remote bases assigned to or supported by the reporting installation. When mutually agreeable between the host and tenant, major energy consuming tenants may report energy consumption through their individual component channels. However, data submitted in this manner shall be coordinated between hosts and tenants to ensure that all consumption is reported only once. Energy consumed and reimbursed by non-DoD Activities or civilian contractors may be excluded from DUERS reporting. Each DoD Component shall determine which activities are consumers of facility energy and which are consumers of industrial process energy. The following criteria will be used:

C2.1.1.1. Facilities engaged in manufacturing, repair, materiel storage and distribution, commissary, operational test and evaluation, disposal, incineration and similar activities will be designated industrial process energy activities.

C2.1.1.2. Facilities used primarily for administration, housing, education and training, medical, research, staff, and headquarters functions will be designated facility energy activities.

C2.1.1.3. Reporting installations may report separately industrial process and facility energy use, when both types of activities are conducted on an installation, or they may choose to designate individual facilities as "process facilities" when process energy consumption is 60 percent or greater than administrative energy use. Only Fiscal Year

(FY) 1985 baseline data must be adjusted, if required by this expanded definition of industrial process energy. Report adjustments in baseline data (i.e., moving administrative energy reporting into process category, or adding process energy that has not been previously reported) using standard DUERS procedures for FY85 data.

C2.1.1.4. Facilities designated process energy facilities in FY85 will generally remain in that category, unless mission changes or reporting anomalies dictate.

C2.1.2. Classes of Energy That Must Be Reported

C2.1.2.1. Utility inventory data is data that measures stocks or stored quantities, such as coal and fuel oil (for tanks greater than 2000 gallons), which will be used to generate energy in a future reporting period but are currently on hand and available for use.

C2.1.2.2. Utility energy consumption is the total actual usage of energy during the reporting period. Consumption for metered utility energy is the difference between the last period's ending meter reading and the ending meter reading for the current reporting period; e.g., electricity and natural gas. It may be assumed for reporting purposes that fuel oil distributed to end user tanks is used at the time the custody transfer takes place -- usually at the user tank.

C2.1.2.3. Industrial process energy is the facility energy directly consumed in the manufacture, maintenance, overhaul, rehabilitation or refurbishment, testing, and destruction of products such as tanks, aircraft, ships, munitions, propellants, and/or the component parts thereof, and energy consumed in the movement of materials in warehouses. This includes Government-owned, Contractor-operated facilities, operational test and evaluation facilities, and commissaries. It excludes energy used for support to ships in port or aircraft on the ground, personal comfort, medical facilities, general administration, research and development activities (except test and evaluation), facility security, staff and headquarters functions, and housekeeping requirements. In support of the industrial energy efficiency goal directed by the Deputy Secretary of Defense Memorandum (reference (a)) and by the President in E.O. 12759 (reference (b)), Defense activities will report industrial process energy consumption separately from energy used in administrative buildings. To ensure consistency when separate reporting of process energy is desired, reporting shall be accomplished on the DUERS MEB 3 Data Record on a monthly basis according to the instruction in Chapter 4.

C2.1.2.3.1. Each kind of utility energy consumed in an industrial process shall be reported separately. If 60 percent or more of total energy used in a facility is for an industrial process, the entire facility may be reported as a process energy facility by completing the DUERS MEB 6 Data Record.

C2.1.2.3.2. When a facility is used for more than one purpose, and one of those purposes is an industrial process consuming less than 60 percent of the total energy, that production area will be measured and reported separately.

C2.1.2.3.3. The requirement to isolate and measure industrial process energy consumption shall be determined at each activity since the requirement may indicate a need to install additional metering devices -- an action that should be taken if found to be cost-effective. Where meters do not exist and installing new ones is not cost-effective, professionally recognized methods of measuring and estimating utility energy usage are acceptable. Where meters do exist, energy consumption figures should be read directly from the meters or utility bills.

C2.1.2.3.4. Each DoD Component with industrial process activities may create a unit to measure energy efficiency (productivity); i.e., MBTU consumed per unit of output, where output is defined as some reasonable measure of the quantity of the product or service delivered to the military customer from a specific facility.

C2.1.2.3.4.1. The DoD Components may propose an aggregate efficiency measure for all its process energy use. If such a measure is proposed, the work load units must be reported along with the energy usage data.

C2.1.2.3.4.2. If the DoD Component chooses not to report an efficiency measure, OSD will measure gross industrial process energy use reduction on a "per gross square foot" basis for that Component against the FY85 industrial process energy baseline.

C2.1.2.4. Family housing and mobility substitution energy shall each be reported at an activity using a separate Department of Defense Activity Address Code (DoDAAC). As an example, the Naval Shipyard in Philadelphia, PA, reports its installation utility energy under DoDAAC N00151, its family housing utility energy under DoDAAC D00151, and its mobility substitution energy under DoDAAC B00151. Mobility substitution energy is defined as the facilities' energy that directly substitutes for mobility energy to achieve greater efficiency. Examples include cold iron ships support, aircraft, ship and weapons systems (e.g., tanks), simulator energy use, and central flight line aircraft power systems. Energy reported in these categories should

be directly metered. Since the use of mobility substitution energy improves the overall energy efficiency of Defense energy usage, and improves readiness training and weapon system maintenance, its increased use should be actively encouraged.

C2.1.3. Cost Savings Retention Certification. In support of the cost savings retention and reuse authority provided by 10 U.S.C. 2865 (reference (c)) and the joint Comptroller of the Department of Defense and Assistant Secretary of Defense (Production and Logistics) Memorandum (reference (d)), each installation's Post Engineer or Public Works Officer will file, as part of the fourth quarter report, the amount of energy cost savings in thousands of dollars including the Government's share from shared energy savings or performance contracts achieved during the past FY (i.e., the year covered by the report, see Chapter 4, MEB 7 Data Record). Also reported will be the Government's share from such, contracts, cost savings used or earmarked for discretionary use, and cost savings used or to be used for additional energy conservation projects. This information will be reported annually as of September 30 for the preceding FY with normal reporting submissions. The first report will be submitted for FY 1993.

C2.1.4. Report Frequency. Individual activities shall report separate monthly DUERS MEB 2, MEB 3, and MEB 4 records, as described in Chapter 4, at the close of each fiscal quarter. The DUERS data cutoff of monthly records shall be determined by the commercial utilities' billing schedules at each reporting activity. Report the monthly breakout of MEB 2 and MEB 3 records based upon utilities' billing schedules. For example, this may be the 12th of May to the 11th of June, or any other combination of dates. Report all energy purchased since the previous billing. MEB 5, MEB 6, MEB 7 and MEB 8 records shall be submitted annually following the fourth quarter of each FY. The DoD Component must submit DUERS data no later than 60 days following the end of the reporting period. The DoD Components shall submit requests for deviations from the reporting procedure to the Office of the Deputy Under Secretary of Defense for Environmental Security. (The report may be required on a monthly basis by the DUSD(ES) in the event of a peacetime energy emergency). Refer to Chapters 3 and 4 for instructions on how to prepare DUERS data for submission and the address to which the data is sent. In the event of a declared national security emergency or war, DUERS reporting shall be suspended for all military theaters actively engaged in war fighting. DUERS reporting shall be maintained in CONUS to ensure that the Department of Defense is receiving adequate supplies of facilities energy, unless reporting waivers are granted by the OSD.

C2.1.5. Data Lines. A summary of the utility reports is listed below.

C2.1.5.1. At least one data line -- the MEB 2 Inventory and Consumption Record -- shall be prepared for each utility energy product consumed, stored, or issued by the reporting activity.

C2.1.5.2. The MEB 3 Industrial Process Energy Record shall be prepared by those activities that consume and choose to segregate process energy.

C2.1.5.3. The MEB 4 Weather Data Record is an optional submission by activities wishing to report weather data that differs from what is reported locally by the weather service.

C2.1.5.4. The MEB 5 Population Record is submitted annually to report authorized population of an activity.

C2.1.5.5. The MEB 6 Building and Square Footage Record is also reported annually to reflect the gross square footage of buildings that consume energy.

C2.1.5.6. The MEB 7 Energy Certification Record is submitted annually to report energy cost savings and that portion of the savings retained for reinvestment according to 10 U.S.C. 2865 (reference (c)) at individual facilities (i.e., DoDAACs).

C2.1.5.7. The MEB 8 record is submitted annually to reflect the output measure of the industrial process activity. Each DoD Component may establish guidelines for measuring process outputs with the default being industrial process energy consumed per gross square feet.

C2.1.5.8. The data in the MEB 4, MEB 5, and MEB 6 records are reported because they are variables that affect energy consumption on an installation. Refer to Chapter 4 for detailed instructions on preparing the MEB data records.

C2.2. INFORMATION REQUIREMENTS

The reporting requirements identified in this Manual have been assigned Report Control Symbol DD-A&T(M)1313.

C3. CHAPTER 3

DUERS DATA TRANSMISSION

Historically, most of the DUERS data was received through messages automatically generated by punched card images that were input to the old DEIS-II database. This method was relatively efficient but had a high error rate as a result of key punch errors and data communication errors. However, as the DoD Components developed their own DEIS-II data subsystems to facilitate their respective energy management portions of the central DEIS, more efficient and preferred methods of data transmission have become available. Specifically, use of the Defense Data Network and submission of data diskettes and tapes have reduced the need to rely on Automated Digital Network (AUTODIN). The purpose of this Chapter is to provide instructions on how to transmit data to the DUERS.

C3.1. DEFENSE DATA NETWORK

The Department of Defense directed the Defense Information Systems Agency (DISA) to implement the Defense Data Network (DDN) as the DoD common-user data communications network. DDN supports local users as well as inter-computer communications. By becoming subscribers to the DDN, the DoD Component's DUERS data subsystems will have the technical means for high speed, automated file and data transfer between computers. For guidance on how to connect to the DDN, contact your organization's office responsible for providing telecommunications services. Specific instructions on how to perform DUERS data submissions using DDN can be obtained by writing:

7TH Communications Group/GNE
ATTN: DUERS
Room 3D1053
The Pentagon
Washington, DC 20330-6345

C3.2. FLOPPY DISKETTE SUBMISSION

The preferred method of data submission is on a floppy diskette. Data files must be in ASCII text file format on an MS-DOS formatted 3.5" or 5.25" floppy diskette, high or

double density (HD or DD). Provide submissions in the DUERS reporting format as specified in Chapter 4 of this Manual. Forward all submissions to the 7th Communications Group at the address in section C3.1., above.

C3.3. TAPE SUBMISSION - (Least Desirable Method of Reporting)

Instead of transmitting data to the DUERS computer via DDN or floppy diskette, the DoD Components may transmit data on a computer tape. By consolidating and transcribing their activity data on a computer tape, a DUERS data subsystem may forward this tape to the central DEIS computer for direct input. Instructions on this process follow: (NOTE: Tape submissions are being phased out and steps should be made to transition to DDN file transfer or floppy disk submission).

C3.3.1. Tape submissions shall only be made for an activity-wide reporting basis. The DoD Components shall specify transmission instructions for their major commands and installations. Each DoD Component should then forward a tape for DUERS data to the central DUERS computer per reporting period. Tape submissions may be accepted for a limited period from major commands when prior arrangements have been made through the 7th Communications Group. (See subsection C3.3.4., below).

C3.3.2. All submissions shall be prepared on unlabeled, nine-track magnetic computer tape, BPI (density) 6250, record length 80, block size 6240, record format-fixed block.

C3.3.3. All data shall be entered in standard DUERS reporting format, as described in Chapter 4 of this Manual. Eighty column record length shall be used (traditional card format).

C3.3.4. Tape submissions shall be forwarded to the 7th Communications Group at the address in section C3.1., above.

C3.4. DoDAAC

To obtain a DoDAAC, contact: Department of Defense Automatic Addressing Center, 1080 Franklin Street, Gentile Station, Dayton, Ohio 45444-5320.

C4. CHAPTER 4

DUERS FORMAT

DUERS is designed to address the consumption of energy resources used to provide utility energy at DoD activities. The purpose of this Chapter is to provide instructions on how to prepare MEB 2, MEB 3, MEB 4, MEB 5, MEB 6, MEB 7, and MEB 8 records for submission to DUERS. DUERS data elements shall be reported in the format listed in section C4.1. through C4.7., below. Separate records shall be prepared for each applicable product code (e.g., electricity, natural gas, and propane) for each report period. If a particular data element is not applicable, report zeroes in that data field. Also, include leading zeroes to fill unused record columns of data fields (for example, to report 150 short tons consumption of anthracite coal, input 00000150 in Record columns 41-48 of the MEB 2 Record). Corrections to any data element submitted may be made within 120 days of the original report due date. Corrections after 120 days must be submitted to and approved by the appropriate DoD Component energy office. Corrections to these data elements may be made by resubmitting the record. When submitting corrections, all data elements on that record must be filled in, including data elements that previously were correct. However, only the record containing the error must be resubmitted.

C4.1. MEB 2 - INVENTORY AND CONSUMPTION RECORD

The MEB 2 record shall be reported in the following format: (The MEB 2 record must be completed for every DUERS product stored or consumed; in some cases, this may involve reporting only inventory with no consumption in that report period).

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	2
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter the two-digit number indicating the month of the reporting period; for example, March would be entered as 03. (When a correction is being made, always use the month and year of the reporting period to be corrected.)
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC), such as FP2300, N00151, W26FAA.
18	Blank
19-21	Enter the approved three-character product code as shown in Chapter 5.
22	Blank
23-30	Report DoD-owned inventory for each applicable product at the end of each report month. Inventory is reported in the same units as consumption for products ANC, COL, COK, PPG, and WUD only. Enter 8 zeroes for all other products.
31	Blank
32-39	Report the measured or certified BTU content for the product only if it differs from the standard BTU value shown for the product in Chapter 5. Report an 8-digit whole number, without commas in this field; for example, the BTU content for ANC could be reported as 25000000 and for SHW as 00001100. Enter 8 zeroes in this data field if the standard BTU value will be used. (ABTU value must be reported for product code FSX.)
40	Blank
41-48	Report the activity's total quantity of energy product consumed during the month covered by the report. This includes tenants and remote bases, as appropriate. It also includes any industrial process energy consumption. Exclude family housing and mobility substitution energy consumption since they are reported under their own separate DoDAACs. Military Services shall ensure that the same energy is not reported under two different DoDAACs. Consumption is reported in units as described in Chapter 5; for example, ELC is reported in megawatt hours and COL is reported in short tons.
49	Blank
50-57	Available for DoD Component-defined use.
58	Blank
59-66	Report cost in whole dollars for the total consumption reported in columns 41-48. Costs are of the energy consumed only, and do not include activity utility plant and/or system operation and maintenance. For fuel oils, use actual local commercial cost.
67-80	Blank

The following data lines are examples of correctly completed MEB 2 records: (There is only one space between data elements and leading zeroes are used to fill unused record columns of data elements. If a particular data element does not apply zeroes are used to fill that element.)

Table C4.T1. MEB 2 RECORD

MEB	2	8601	WCIJ4Q	COL	00055786	15600000	00012782	00000000	00525596
MEB	2	8602	B62863	ELC	00000000	00000000	00000591	00000000	00021554
MEB	2	8605	W33NYN	WUD	00000000	09000000	00004630	00000000	00043290
MEB	2	8603	X62PN4	ELC	00000000	00000000	00001860	00000000	00155855
		DATE							
			DoDAAC						
				PRODUCT CODE					
					INVENTORY				
						BTU CONTENT			
							CONSUMP- TION		
								DoD COMPONENT USE	
									COST

C4.2. MEB 3 - INDUSTRIAL PROCESS ENERGY RECORD

The MEB 3 record shall be reported in the following format: (MEB 3 records should only be submitted by those activities that consume industrial process energy.)

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	3
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter the two-digit number indicating the month of the reporting period.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18	Blank
19-21	Enter the approved three-character product code as shown in Chapter 5.
22	Blank
23-30	Enter the quantity of energy reported in columns 41-48 of the MEB 2 record that is industrial process energy. Industrial process energy is defined as the facilities' energy utilized in the direct production, rehabilitation, or disposal of equipment or goods.
31	Blank
32-39	Enter quantity of the total energy reported on the MEB 2 record (columns 41-48) that was consumed in buildings. For ELC, NAG, FSX, FSD, FSR and FOR, this is metered consumption. For all other products, this may be estimated consumption. (Optional)
40-80	Blank

The following data lines are examples of correctly completed MEB 3 records:

MEB	3	8603	N60258	NAG	00040180	00002148
MEB	3	8601	FP4800	FSR	00000300	00000428
		DATE				
			DoDAAC			
				PRODUCT CODE		
					PROCESS ENERGY	
						BUILDINGS

C4.3. MEB 4 - WEATHER DATA RECORD

Weather data is received monthly from the USAF Environmental Technical Application Center, Asheville, NC and processed by USAF 7th Communication Group Personnel for all DoDAACs. The MEB 4 record should only be submitted if past experience has shown that the data reported centrally (from the weather service) differs 5 percent or more from the location of the reporting activity.

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	4
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter the two-digit number indicating the month of the reporting period.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18-22	Blank
23-26	Enter the number of cooling degree days using a base of 65 degrees Fahrenheit. This is reported only if past experience has shown that the data reported centrally (from the weather service) differs 5 percent or more from the location of the reporting activity. Otherwise, this field should be zero filled.
27	Blank
28-31	Enter the number of heating degree days using a base of 65 degrees Fahrenheit. This is reported only if past experience has shown that the data reported centrally differs 5 percent or more from the location of the reporting activity. Otherwise, this field should be zero filled.
32-80	Blank

The following data lines are examples of correctly completed MEB 4 records:

Table C4.T3. MEB 4 RECORD

MEB	4	8604	FP4625	0032	0227
MEB	4	8601	W42HOM	0000	0516
		DATE			
			DoDAAC		
				BLANK (5 SPACES)	
				COOLING DEG-DAYS	
					HEATING DEG-DAYS

C4.4. MEB 5 - POPULATION RECORD

The MEB 5 record is reported annually as of September (month 09) to reflect the population of the activity at the end of the FY. This record has been included in the DUERS because population is a variable that affects installation energy consumption.

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	5
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter 09 to indicate the September date for this data element.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18	Blank
19-25	Enter the number of personnel served by the facilities energy reported for the activity. For DoDAACs assigned for family housing, this may be an estimate of the total number of family housing residents.
26-80	Blank

The following data lines are examples of correctly completed MEB 5 records:

Table C4.T4. MEB 5 RECORD

MEB	5	8609	W45NQ7	0062262
MEB	5	8609	A68122	0000184
		DATE		
			DoDAAC	
				POPULATION

C4.5. MEB 6 - BUILDING AND SQUARE FOOTAGE RECORD

The MEB 6 record is reported annually as of September (month 09) to reflect the gross square footage for all buildings that consume energy. That is, these data elements relate to the FY just ended.

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	6
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter 09 to indicate that the data was reported as of September.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18	Blank
19-23	Enter the total number of owned buildings whose energy is reported in the DUERS. Sterile buildings (buildings not in regular use, not consuming any energy, or awaiting demolition) or buildings maintained in "caretaker" condition throughout the year with only minimal security lighting should not be counted.
24	Blank
25-30	Enter the total square footage for all owned buildings, as reported in columns 19-23 of this record, and as found in the real property inventory of the activity or on design specifications. Report in thousands of square feet.
31	Blank
32-35	Enter the total number of energy consuming buildings rented or leased from any organization or party outside of the Department of Defense, if the energy use is paid for directly by the DoD Component.
36	Blank
37-41	Enter the total square footage for all leased buildings, as reported in columns 32-35, and as specified in the leasing agreement. Report in thousands of square feet.
42	Blank
43-46	Enter the total number of owned or leased buildings, as reported in columns 19-23 and 32-35, which are used primarily for industrial process energy. The DoD Components are responsible for the development of a definition of "process building" consistent with their individual energy use profile. This data element should only be reported by those activities that consume industrial process energy.
47	Blank
48-52	Enter the total square footage of industrial process buildings, as reported in columns 43-46, and as found in the real property inventory on the design specifications, or in the leasing agreement. Report in thousands of square feet. This data element should only be reported by those activities that consume industrial process energy.
53-80	Blank

The following data lines are examples of correctly completed MEB 6 records:

Table C4.T5. MEB 6 RECORD

MEB	6	8609	N65885	00078	002301	0000	00000	0078	02301
MEB	6	8609	W45NQ7	04533	015127	0000	00000	0000	00000
MEB	6	8609	A38950	00003	000143	0003	00129	0004	00125
		DATE							
			DoDAAC						
				OWNED					
				BLDGS					
					OWNED				
					SQ. FT.				
					(x1000)				
						LEASED			
						BLDGS			
							LEASED		
							SQ. FT.		
							(x1000)		
								PROCESS	
								BLDGS	
									PROCESS
									SQ. FT.
									(x1000)

C4.6. MEB 7 - ENERGY CERTIFICATION RECORD

The MEB 7 record is reported annually as of September (month 09) to support the cost savings retention and reuse authority provided by 10 U.S.C. 2865 (reference (c)) and the Principal Deputy Assistant Secretary of Defense (Production and Logistics) Memorandum (reference (e)).

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	7
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter 09 to indicate that data was reported as of September.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18	Blank
19-24	Enter the total amount of energy cost savings, in thousands of dollars, resulting directly from energy conservation management actions, including the Government's portion of energy performance contract savings, and rebates received through demand side management or energy conservation programs sponsored by utility companies.
25	Blank
26-31	Enter the Government's portion of energy cost savings in thousands of dollars resulting directly from "energy savings performance contracts," and rebates received through utility company-sponsored demand side management or energy conservation programs.
32	Blank
33-38	Enter the amount of energy cost savings, in thousands of dollars, identified in columns 19-24 above, earmarked for installation morale, welfare and recreation, facilities or services, improvements to existing military family housing, or other unspecified minor construction projects.
39	Blank
40-45	Enter the amount of energy cost savings, in thousands of dollars, identified in columns 19-24 above, earmarked for transfer to higher headquarters, or retained at the installation level (if approved by higher headquarters), for reinvestment into energy costs of other energy conservation projects.
46-80	Blank

The following data lines are examples of correctly completed MEB 7 records:

Table C4.T6. MEB 7 RECORD

MEB	7	9309	N65885	001000	001000	000000	000500
MEB	7	9309	W45NQ7	000500	000400	000250	000250
MEB	7	9309	A38950	000200	000100	000100	000100
		DATE					
		DoDAAC					
			MEASURED				
			NET				
			ENERGY				
			COST				
			SAVINGS				
				ACTUAL ENERGY			
				PEROFRMANCE			
				CONTRACT			
				SAVINGS			
					SAVINGS		
					RETAINED		
					FOR		
					MWR/QOL		
					PROJECTS		
						SAVINGS	
						RETAINED FOR	
						ENERGY	
						CONSERVATION	
						REINVESTMENT	

C4.7. MEB 8 - INDUSTRIAL PROCESS PRODUCTIVITY RECORD

The MEB-8 record is reported annually as of September (month 09) to reflect the output measure of the industrial process activity (see Chapter 2 ,paragraph C2.1.2.3.) through the end of the FY. Each DoD Component shall establish guidelines for measuring.

<u>Record Column</u>	<u>Data Field</u>
1-3	MEB
4	Blank
5	8
6	Blank
7-8	Enter the last two digits of the calendar year of the reporting period.
9-10	Enter 09 to indicate that the data was reported as of September.
11	Blank
12-17	Enter the appropriate consuming DoD Activity Address Code (DoDAAC).
18	Blank
19-25	Enter the total number of gross square feet associated with this industrial process or other output measurements approved by your DoD Component.
26-80	Blank

The following data lines are examples of correctly completed MEB 8 records:

Table C4.T7. MEB 8 RECORD

MEB	8	9109	W45NQ7	0010769
MEB	8	9109	A68122	1897890
		DATE		
			DoDAAC	
				OUTPUT MEASURE

Table C4.T8. SUMMARY OF DUERS FORMATS

2	DATE	DoDAAC	PRODUCT CODE	INVENTORY	BTU CONTENT	CONSUMPTION	DoD COMPONENT	COST
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxx <u>19-21</u>	xxxxxxx <u>23-30</u>	xxxxxxx <u>32-39</u>	xxxxxxx <u>41-48</u>	xxxxxxx <u>50-57</u>	xxxxxxx <u>59-66</u>
3	DATE	DoDAAC	PRODUCT CODE	INDUSTRIAL PROCESS	BUILDINGS	BUILDINGS	BUILDINGS	BUILDINGS
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxx <u>19-21</u>	xxxxxxx <u>23-30</u>	xxxxxxx <u>32-39</u>			
4	DATE	DoDAAC	COOLING DEGREE DAYS	HEATING DEGREE DAYS				
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxx <u>23-26</u>	xxxxxxx <u>28-31</u>				
5	DATE	DoDAAC	POPULATION					
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxx <u>19-25</u>					
6	DATE	DoDAAC	NUMBER OF OWNED BUILDINGS	AREA OF OWNED BUILDINGS	NUMBER OF LEASED BUILDINGS	AREA OF LEASED BUILDINGS	NUMBER OF PROCESS BUILDINGS	AREA OF PROCESS BUILDINGS
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxxxx <u>19-21</u>	xxxxx <u>25-30</u>	xxx <u>32-35</u>	xxxx <u>37-41</u>	xxx <u>43-46</u>	xxxx <u>48-52</u>
7	DATE	DoDAAC	MEASURED NET ENERGY COST SAVINGS	ACTUAL ENERGY PERFORMANCE CONTRACT SAVINGS	SAVINGS RETAINED FOR MWR/QOL PROJECTS	SAVINGS RETAINED FOR ENERGY CONSERVATION REINVESTMENT		
x	xxx <u>7-10</u>	xxxxx <u>12-17</u>	xxxxx <u>19-24</u>	xxxxx <u>26-31</u>	xxxxx <u>33-38</u>	xxxxx <u>40-45</u>		

MEB	8	DATE	DoDAAC	OUTPUT MEASURE
xxx	x	xxx	xxxxx	xxxxxx
		<u>7-10</u>	<u>12-17</u>	<u>19-25</u>

C5. CHAPTER 5PRODUCTS, PRODUCT CODES, AND BTU CONTENT VALUE FOR DUERS REPORTING

<u>Product</u>	<u>Product Code</u>	<u>BTU Content</u>	<u>Reporting Requirements</u>
Electricity	ELC	3,413,000 BTU/MWH	Report in megawatt hours (MWH) for all commercially purchased electricity
Natural gas	NAG	1,031,000 BTU/KCF	Report in thousand cubic feet (KCF)
Coal, anthracite	ANC	25,400, 000 BTU/short ton	Report in short tons
Coal, bituminous	COL	24,580,000 BTU/short ton	Report in short tons
Coke	COK	25,380,000 BTU/short ton	Report in short tons
Purchased steam or hot water	SHW	MBTU content varies with temperature and pressure.	Report in MBTU
Fuel Oil, distillate	FSD ¹	5,825,000 BTU/barrel	Report in barrels
Fuel Oil, residual BTU/barrel	FSR ²	6,287,000	Report in barrels
Fuel Oil, Mixed	FSX ³	6,000,000	Report in barrels
Fuel Oil, Mixed	FSX ³	6,000,000 BTU/barrel	Report in barrels
Fuel Oil, reclaimed	FOR	5,000,000 BTU/barrel	Report in barrels
Propane/LPG/butane	PPG	95,500 BTU/Gallon	Report in gallons
Photovoltaic	PHO	3,413 BTU/KWH	Report in kilowatt hours (KWH) for self-generated photovoltaic. Do not report if it is reported as ELC.
Solar thermal	SOL	1,000,000 BTU/MBTU	Report in MBTU for self-generated solar thermal actually used.
Wind power	WND	3,413 BTU/KWH	Report in KWH for self-generated wind power. Do not report if it is reported as ELC.
Wood	WUD	17,000,000 BTU/short ton	Report in short tons for wood pellets, chips, and logs.
Geothermal (Heat)	GEO	MBTU content varies with temperature and pressure.	Report in MBTU for self-generated geothermal.
Geothermal (Electricity)	GLC	3,413 BTU/KWH	Report in KWH for electricity self-generated from geothermal. Do not report if it is reported as GEO or ELC.
Refuse-derived Fuel	RDF	6,000,000 BTU/short ton	Report in short tons.

<u>Product</u>	<u>Product Code</u>	<u>BTU Content</u>	<u>Reporting Requirements</u>
Hydroelectric	HYD	3,413 BTU/KWH	Report in KWH for self-generated hydroelectric power. Do not report if it is reported as ELC.
Water, Potable	PWT	NONE	Report in millions of gallons
Water, Recycled	RWT	NONE	Report in millions of gallons

¹ FSD may include the following DMERS products: DFA, DFM, DFR, DFW, DF1, DF2, FS1, FS2, XSN, KSD, PS1, PS2, and PS3.

² FSR may include the following DMERS products: FS4, FS5, FS6, FSL, and NSF.

³ FSX may include any DMERS product not included as FOR, FSD, or FSR.

(The intent is to report these alternative energies usages if they are from DoD-financed plants or plants financed under a third-party contract specifically for the provision of energy to a DoD facility. If the energy provided by a commercial utility company to the DoD facility in the form of electricity, steam, or high temperature water is incidentally from an alternative source, then it should be reported under ELC or SHW.)

C6. CHAPTER 6
USE OF THE DUERS

The DUERS centralized database is migrating to an updated Relational Data Base Management System. This system will provide remote, on-line access to authorized energy managers. The purpose of this Chapter is to provide information on the resources available to DoD energy managers on the use of the DUERS.

C6.1. DUERS USER'S GUIDE

The DUERS User's Guide is a printed Manual available to assist users in accessing and retrieving information maintained in the DUERS database. It contains helpful information on system operations, including how to initiate and terminate a terminal session, system query capabilities, and query preparation. Terminal hints, examples of queries, and how to get help are also included. User's guides can be obtained from:

7th Communications Group/GNE
ATTN: UERS
Room 3D1053
The Pentagon
Washington, DC 20330-6345

C6.2. ACCESS AND PASSWORDS TO THE DUERS

Users must obtain passwords to gain access to the DUERS database through the 7th Communications Group. The DUERS is an unclassified system and can be used by Defense energy managers. To request a password, submit your full name, military rank or civilian grade, security clearance, full mailing address, and phone number (both Defense Switched Network (DSN) and commercial) to the 7th Communications Group at the above address. **DO NOT** forward your Social Security Number.