



DEFENSE LOGISTICS AGENCY  
HEADQUARTERS  
8725 JOHN J. KINGMAN ROAD  
FORT BELVOIR, VIRGINIA 22060-6221

IN REPLY  
REFER TO J627

January 18, 2012

MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS

SUBJECT: Proposed Defense Logistics Management System (DLMS) Change (PDC) 502, New Unit of Measure Conversion Codes for DLA Energy (Supply)

We are forwarding the attached proposed change to DOD 4000.25-M, Defense Logistics Management System (DLMS), for evaluation and submission of a single coordinated Service/Agency position.

Request you review the attached proposed change and provide your comments/concurrence to DLA Logistics Management Standards not later than **10** days from the date of this memorandum. If nonconcurrence is provided, please provide an alternate method to meet the requirement being addressed. Expedited review is required; the new DOD codes will become effective January 23, 2012.

Addressees may direct questions to Ms. Ellen Hilert, DOD MILSTRIP Administrator, 703-767-0676; DSN 427-0676; or, e-mail: ellen.hilert@dla.mil. Others may direct questions to their Service or Agency designated Supply PRC representative.

DONALD C. PIPP

Director

DLA Logistics Management Standards

Attachment  
PDC 502

cc:  
ODASD(SCI)

**PDC 502**  
**New Unit of Measure Conversion Codes for DLA Energy**

**1. ORIGINATING SERVICE/AGENCY AND POC INFORMATION:**

**a. Technical POC:** DLA Energy, Contracting Officer Natural Gas Central Division, DLA Energy Phone: 703-767-1153

**b. Functional POC:** DLA Logistics Information Service, Phone: 269 961-432.

**2. FUNCTIONAL AREA:** Supply/Contract Administration

**3. REFERENCES:** Unit of Measure (Unit of Issue/Purchase Unit) Conversion Guide available on the DLMS Web at URL [www.dla.mil/j6/dlms/eApplications/LogDataAdmin/dlmsansiconverguides.asp](http://www.dla.mil/j6/dlms/eApplications/LogDataAdmin/dlmsansiconverguides.asp).

**4. BACKGROUND:**

**a. Intent of the change:** In order for DLMS transactions to comply with Electronic Data Exchange (EDI) American National Standards Institute (ANSI) American Standards Committee (ASC) X12 syntax, the unit of measure passed in the DLMS/Wide Area Workflow (WAWF) transactions must use the code value assigned by ASC X12. The optimum situation occurs where the DOD unit of measure and commercial standard carry the same code values for a specific unit of measure. However, this is not always the case, and so a conversion guide is required to align the DOD and X12 codes. Four new DOD unit of measure codes (as shown below) have been identified for use in electricity and natural gas contracts issued by DLA Energy. In order for transactions to process successfully within WAWF these values must be included in the Unit of Material Measure (Unit of Issue/Purchase Unit) Conversion Guide. Use of the conversion guide is necessary so that all automated systems can understand and process EDI transactions containing the assigned ANSI ASC X12 code value that equates to the DOD code value.

**b. Scenario for which the transaction is used:** This requirement is primarily associated with the WAWF transactions (potentially applicable, but not limited to, the 856, Advance Shipment Notice, and the 861, Acceptance Report). Once authorized, conversion codes will become available for use in all DLMS transactions, as needed.

**c. Procedures, transactions, data elements, processing details in use today:** The requirement to use DLMS/WAWF transactions for DLA Energy contracts is new under DLA's Energy Convergence (EC) program. EC will automate work processes using COTS technology for all Energy-related business areas. It will integrate fuels commodity management with the DLA Business Enterprise Architecture.

## 5. REQUESTED CHANGE(S):

a. The following DOD units of measure must be available in the DLMS Unit of Issue and Purchase Unit Conversion Guide (Unit or Basis For Measurement):

- (1) Kilowatt. A unit of electrical power equal to 1,000 watts. (Applicable to electricity.)
- (2) Kilowatt-Hour. A measure of electrical energy equivalent to a power consumption of one thousand watts over 1 hour. (Applicable to electricity.)
- (3) Megawatt-Hour. A measure of electrical energy equivalent to a power consumption of one million watts over 1 hour. (Applicable to electricity.)
- (4) Dekatherm. A measure of thermal heating value equivalent to one million British thermal units (BTU) or ten therms. (Applicable to natural gas.)

**b. Proposed procedures:** Revise the DLMS Conversion Guide to include new codes, establishing the DOD equivalent codes for conversion processing at ANSI ASC X12 EDI version 4010 or higher, up to the version at which the correct X12 code/definition becomes available (where applicable). The conversion process is used to equate DOD codes for unit of issue or purchase unit to a corresponding value in the ASC X12 code list for unit of measure. When a new unit of measure is needed within DOD, a corresponding code from the commercial standard is selected for use in the conversion guide. When the required new unit of measure is not available in the commercial standard, the DLA Logistics Management Standards may propose a data maintenance action to ASC X12 to have a code added or modified. However, ASC X12 codes are not downwardly compatible, and when a new code is approved, it cannot be applied retroactively to an earlier version/release of the standard.

(1) The unit of measure “Kilowatt” is valid in the commercial standard. A new DoD code will be assigned and the conversion guide will be updated to reflect the corresponding X12 code.

(2) The unit of measure “Kilowatt Hour” is valid in the commercial standard. A new DoD code will be assigned and the conversion guide will be updated to reflect the corresponding X12 code.

(3) The unit of measure “Megawatt Hour” is not valid in the commercial standard; however, the equivalent “Thousand Kilowatt Hours” is available. Because these two units of measure have the same meaning, an X12 data maintenance request will be submitted to incorporate the terminology for both megawatt and thousand kilowatt hours in the text name for the commercial standard so that the two terms will be aligned. A new DOD code will be assigned and the conversion guide will be updated to reflect the corresponding X12 code. It is also proposed that the two terms be incorporated in the DOD text name.

(4) The unit of measure “Dekatherm” is not valid in the commercial standard; however, the equivalent “Million BTU’s” (for British Thermal Units) is available. Because these two units

of measure have the same meaning, an X12 data maintenance request will be submitted to incorporate the terminology for both dekatherm and million BTUs in the text name for the commercial standard so the two terms will be better aligned. A new DOD code will be assigned and the conversion guide will be updated to reflect the corresponding X12 code. It is also proposed that the two terms be incorporated in the DOD text name.

c. The following table provides the relationship between DOD and X12 code values as proposed under the DLMS Change.

**Unit or Basis for Measurement Code (Unit of Issue/Purchase Unit)  
Proposed Code Assignments**

<u>Planned FLIS Code</u>	<u>Planned DOD Code Name*</u>	<u>Version 4010 Code</u>	<u>Current X12 Standard Text Name</u>	<u>Data Maintenance Request for Future X12**</u>
KW	Kilowatt	K7	Kilowatt	
KP	Kilowatt-Hour (KWH)	KH	Kilowatt Hour	
MW	Megawatt-Hour (MWH) (Thousand KWH)	T9	Thousand Kilowatt Hours	T9 Thousand Kilowatt Hours (Megawatt-Hour)
DH	Dekatherm (DTH) (MMBTU)	BZ	Million BTU's	BZ Million BTUs (Dekatherm)

\* The exact text name used in FLIS is limited to a maximum length of 20 characters and will be abbreviated to accommodate this restriction.

\*\* Proposed for X12 Version 6050 (approximate).

d. **Alternatives:** None.

6. **REASON FOR CHANGE:** The above new codes are needed in support of electricity and natural gas contracts issued by DLA Energy. The codes used in FLIS cannot duplicate existing codes identified for DOD use in the conversion guide.

7. **ADVANTAGES AND DISADVANTAGES:**

a. **Advantages (tangible/intangible):** The availability of ANSI X12 code equivalents allows DLA to implement WAWF for DLA Energy and meet X12 syntax requirements.

b. **Disadvantages:** None identified.

8. **ASSUMPTIONS USED OR WILL BE USED IN THE CHANGE OR NEW DEVELOPMENT:**

9. **NOTE ANY REGULATIONS OR GUIDANCE:** DLA Logistics Information Services shall update DOD 4100.39-M, FLIS, Volume 10, Table 53, Unit of Issue Codes with new DoD code designations and terms (text names) as shown above. Further research is required to determine applicability to Table 81, Unit of Measurement Designations.

## **10. ADDITIONAL FUNCTIONAL REQUIREMENTS:**

**a.** Once approved, the new codes will be published on the DLMS Web at URL [www.dla.mil/j-6/dlms/eApplications/LogDataAdmin/dlmsansiconverguides.asp](http://www.dla.mil/j-6/dlms/eApplications/LogDataAdmin/dlmsansiconverguides.asp). To view, select the Unit of Issue and Purchase Unit Conversion Guide (Unit or Basis For Measurement) in the desired sequence: DOD Code sequence, ANSI ASC X12 Code sequence, or alphabetic sequence by text name.

**b.** DLA Logistics Management Standards will submit a data maintenance request to ANSI ASC X12 for modification of the descriptor for codes T9 and BZ. The descriptions shown in the table above will be proposed, but are subject to approval by the X12 Committee.

**c.** DLA Logistics Information Services shall update the FLIS application to reflect the new DOD codes and composite descriptors per table above.

**11. ESTIMATED TIME LINE/IMPLEMENTATION TARGET:** The new DOD code values shown above are expected to be available in FLIS on January 23, 2012. **Note:** *This change requires revisions to the January 15, 2011 FLIS entries for compatibility with the conversion guide.* The conversion guide codes will become effective for use immediately upon publication of an approved DLMS Change.

**12. ESTIMATED SAVINGS/COST AVOIDANCE ASSOCIATED WITH IMPLEMENTATION OF THIS CHANGE:** Not available.

## **13. IMPACT:**

**a. New DLMS Data Elements:** None

**b. Changes to DLMS Data Elements:** Code list/conversion guide updates are described above.

**c. Automated Information Systems:** DLA Transaction Services, DLA Enterprise Business System, and Wide Area Workflow must be updated to reflect new code additions.

**d. DLA Logistics Information Services:** FLIS update required.