

PACKAGE ID - 000165IBMPC08 AES6.1

KWIC TITLE - Automated Estimating System

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LIMITATION CODE -UNL **AUDIENCE CODE** - UNL

COMPLETION DATE - 03/01/1996 **PUBLICATION DATE** - 03/01/1996

DESCRIPTION - AES6.1 is a PC software package developed to aid in the preparation and reporting of cost estimates. AES6.1 provides an easy means for entering and updating the detailed cost, schedule information, project work breakdown structure, and escalation information contained in a typical project cost estimate through the use of menus and formatted input screens. AES6.1 combines this information to calculate both unescalated and escalated cost for a project which can be reported at varying levels of detail. Following are the major modifications to AES6.0f: Contingency update was modified to provide greater flexibility for user updates, Schedule Update was modified to provide user ability to schedule Bills of Material at the WBS/Participant/Cost Code level, Schedule Plot was modified to graphically show schedule by WBS/Participant/Cost Code, All Fiscal Year reporting has been modified to use the new schedule format, The Schedule 1-B-7, Cost Schedule, and the WBS/Participant reports were modified to determine Phase of Work from the B/M Cost Code, Utility program was modified to allow selection by cost code and update cost code in the Global Schedule update, Generic summary and line item download were added to the utility program, and an option was added to all reports which allows the user to indicate where overhead is to be reported (bottom line or in body of report)

PACKAGE CONTENTS - Media Directory; Software Abstract; K/CSD/TM-102 Rev. 1; K/CSD/TM-64 Rev. 6; Media Includes Executables, Text Library, READ.ME File, Map File;

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - 7 3.5 Diskettes (1/AES6.1 Program Disk, 2/AES6.1 Database Disks, 3/AES6.1 TPU Files, plus 1 Standard Value V4.1a Program Disk)

METHOD OF SOLUTION - Average Escalation Rate: The average escalation for a Bill of Material is calculated in three steps. 1: A table of quarterly escalation factors is calculated based on the base fiscal year and quarter of the project entered in the estimate record and the annual escalation rates entered in the Standard Value File. 2: The percentage distribution of costs by quarter for the Bill of Material is calculated based on the schedule entered and the curve type. 3: The percent in each fiscal year and quarter in the

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METHOD OF SOLUTION - (CONT) distribution is multiplied by the escalation factor for the fiscal year and quarter. The sum of these results is the average escalation rate for that Bill of Material. Schedule by Curve: The allocation of costs to specific time periods is dependent on three inputs, starting schedule date, ending schedule date, and the percentage of costs allocated to each quarter. Contingency Analysis: The contingency analysis is based on cost categories at the WBS-Participant level with regard to the completeness of design and degree of difficulty.

COMPUTER - IBM PC

OPERATING SYSTEMS - DOS 3.1 or higher

PROGRAMMING LANGUAGES - Borland's Turbo Pascal 7.0

SOURCE CODE AVAILABLE (Y/N) - N

UNIQUE FEATURES - Ease of Use: AES6.1 uses menus and formatted input screens to guide the user through the estimate creation/update process.

RELATED SOFTWARE - Previous versions of AES.

OTHER PROG/OPER SYS INFO - At the time the computer is booted, a file named CONFIG.SYS must be in the root directory of the drive from which the system is loaded. The file must contain at least the following lines: FILES = ff, BUFFERS = bb, where ff must be at least 13 and bb must be at least 10. AES6.1 incorporates some codes which accompany the Turbo Toolbox software package. It is permissible to distribute the object code of these routines with a production system. The source code cannot be distributed due to license restrictions from Borland International, Inc. If errors are encountered during compilation, turn off the strict variable checking in passing parameters. SOURCE CODE IS NOT INCLUDED WITH PACKAGE.

HARDWARE REQS - 415 KB of free Random Access Memory (RAM), color graphics monitor and adapter, one 720 KB diskette drive, one hard disk drive (either fixed or removable) with at least 3M of free disk space, printer.

TIME REQUIREMENTS - The running time is dependent upon the size of the function being performed.

REFERENCES - D.A. Holder, Automated Estimating System (AES) Version 6.1 User's Manual, K/CSD/TM-64 Revision 6, March 1996; D.A. Holder, Automated Estimating System (AES) Standard Value Update Program User's Manual, K/CSD/TM-102 Revision 1, August 1994.

ABSTRACT STATUS - AES6.0 submitted July, 1994. Released AS-IS July 27, 1994. AES6.0D submitted August 1994. Released AS-IS August 30,

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ABSTRACT STATUS - (CONT) 1994. AES6.0E submitted September 30, 1994.
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SUBJECT CLASS CODE - M

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
A CODES
COST ESTIMATION
CONSTRUCTION

EDB SUBJECT CATEGORIES -
990200 990100

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS