

**PACKAGE ID** - 000637IBMPC00 DSEM

**KWIC TITLE** - Disposal Site Economic Model

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

**COMPLETION DATE** - 01/01/1989   **PUBLICATION DATE** - 01/01/1989

**DESCRIPTION** - The DISPOSAL SITE ECONOMIC MODEL calculates the average generator price, or average price per cubic foot charged by a disposal facility to a waste generator, one measure of comparing the economic attractiveness of different waste disposal site and disposal technology combinations. The generator price is calculated to recover all costs necessary to develop, construct, operate, close, and care for a site through the end of the institutional care period and to provide the necessary financial returns to the site developer and lender (when used). Six alternative disposal technologies, based on either private or public financing, can be considered - shallow land disposal, intermediate depth disposal, above or below ground vaults, modular concrete canister disposal, and earth mounded concrete bunkers - based on either private or public development.

**PACKAGE CONTENTS** - NESC Note; Software Abstract; DOE/LLW-68T; Media Includes Source Code, Executable, Object, Database Files, Database Index Files, Control Information;

**SOURCE CODE INCLUDED?** - Yes

**MEDIA QUANTITY** - 3 5.25 Diskettes

**METHOD OF SOLUTION** - The economic models incorporate default cost data from the Conceptual Design Report (DOE/LLW-60T, June 1987), a study by Rodgers Associates Engineering Corporation. Because all costs are in constant 1986 dollars, the figures must be modified to account for inflation. Interest during construction is either capitalized for the private developer or rolled into the loan for the public developer. All capital costs during construction are depreciated over the operating life of the site using straight-line depreciation for the private sector.

**COMPUTER** - IBM PC

**OPERATING SYSTEMS** - DOS 3.0

**PROGRAMMING LANGUAGES** - FoxBASE with dBASE III

**SOFTWARE LIMITATIONS** - Maxima of - 100 years post-operating period, 30 years operating period, 15 years pre-operating period. The model should be used with caution outside the range of 1.8 to 10.5

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**SOFTWARE LIMITATIONS - (CONT)** million cubic feet of total volume.  
Depreciation is not recognized with public development.

**SOURCE CODE AVAILABLE (Y/N)** - Y

**HARDWARE REQS** - An IBM PC or compatible computer with at least 256  
Kbytes of memory and a hard disk.

**REFERENCES** - EG&G Idaho, Inc., Disposal Site Economic Model User's  
Guide for Personal Computers, DOE/LLW-68T, March 1988; DISPOSAL  
SITE ECONOMIC MODEL, NESC No. 9532, DISPOSAL SITE ECONOMIC MODEL  
FDC Directories, National Energy Software Center Note 89-26,  
January 6, 1989.

**ABSTRACT STATUS** - Abstract first distributed January 1989. IBM PC  
version submitted April 1988.

**SUBJECT CLASS CODE** - PR

**KEYWORDS** -

COMPUTER PROGRAM DOCUMENTATION  
D CODES  
LOW-LEVEL RADIOACTIVE WASTES  
RADIOACTIVE WASTE DISPOSAL  
ECONOMIC ANALYSIS  
RADIOACTIVE WASTE FACILITIES  
COST ESTIMATION  
PRICES  
GROUND DISPOSAL  
UNDERGROUND DISPOSAL

**EDB SUBJECT CATEGORIES** -  
990200 052002

**SPONSOR** - DOE/RW

**PACKAGE TYPE** - AS - IS