PACKAGE ID - 000553AL0II00 REOPT V2.0

KWIC TITLE - An Electronic Encyclopedia of Remedial Options

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LIMITATION CODE -COPY **AUDIENCE CODE -** LIM

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DESCRIPTION - REOPT has been developed by Pacific Northwest Laboratory to provide information about remedial action technologies, including application and regulatory information for over 700 contaminants. REOPT is a user-friendly personal computer program and database that functions like an electronic encyclopedia, sorting and presenting information to quickly familiarize engineers and planners with available remediation technologies. The system will help users focus quickly on the remediation technologies most likely to be effective for a particular site and problem, and presents concise, easy-to-use information about those technologies, helping users identify the key factors and constraints to consider in evaluating the use of each technology. REOPT contains information on approximately 90 established (i.e., proven) remediation technologies that could potentially be used for DOE waste-site cleanup. REOPT also contains auxiliary information about hazardous and radioactive contaminants and the federal regulations that govern their disposal. REOPT contains data for approximately 90 remedial action technologies, divided into categories according to the portion of a remedial action (i.e., containment, treatment, disposal, etc.) that they relate to or perform. Technologies are also classified according to the contaminants to which they may be applied. Contaminants may be selected from a list of approximately 700 in ten organic and four inorganic categories. The information for each technology is organized into the broad categories of

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DESCRIPTION -(CONT) descriptive information, application information, and additional information sources; these are then subdivided to allow the user to access more specific information about the technology.

PACKAGE CONTENTS - Media Directory; Software Abstract; PNL-7480; Media Includes Executable Module;

SOURCE CODE INCLUDED? - No

MEDIA QUANTITY - 4 3.5 Diskettes

METHOD OF SOLUTION - REOPT allows users to identify, select, and access various types of information about or associated with remediation technologies. The user interface complies with the platform standards, on the Macintosh it follows standard Macintosh behavior. The user interface is created with OMNIS 7 and uses an internal OMNIS 7 database. Textual and numerical data are stored in the internal OMNIS 7 database tables accessed via the interactive menu-driven interface. Graphical information is stored as PICT files. The user interface performs two generic functions with regard to the stored information Sorting/Selection; based on input from the user, usually in the form of choices made via menus or buttons, REOPT identifies technologies, contaminants, or regulations that reflect the user's selections. The user may then select a particular technology, contaminant, or regulation for access to specific corresponding information. Information Retrieval; selected information may be retrieved for on-screen viewing or, in many cases, printed for subsequent use. In each case, the information is organized and formatted to facilitate its use. The user interface for REOPT consists of linked screens or dialogue boxes. These, in conjunction with the menu bar, allow users to perform generic functions for specific categories of information.

COMPUTER - APPLE II

OPERATING SYSTEMS - Macintosh II (ci,cx or fx): System version 6.0 or later

PROGRAMMING LANGUAGES - OMNIS 7

SOFTWARE LIMITATIONS - The system provides summary information for 88 existing remediation technologies. There is chemical parameter information for approximately 700 unique contaminants-of-concern to DOE, as well as regulatory information from nine major federal regulations regarding disposal of those contaminants.

SOURCE CODE AVAILABLE (Y/N) - N

UNIQUE FEATURES - The information is accessed via a user-friendly personal computer graphical interface. Intuitively designed

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UNIQUE FEATURES -(CONT) buttons, menus, and lists help the user identify and access the particular information of interest, and the corresponding information is presented in a format that facilitates its use. The information is presented in a standard, concise, easy-to-use format that can be viewed on the personal computer screen or printed for later use. Context-sensitive help (i.e., help relating to the current screen) may be invoked by using the pull-down menus to activate the help feature. When the help feature is activated, pointing at objects on the screen (buttons, lists, etc.) will access messages explaining the function of the selected object. Definitions of technical terms and acronyms may be accessed by using the pull-down Menu Bar item Lists and selecting the item, Keywords. The unknown word or acronym, along with a corresponding definition, can then be selected from a scroll list.

RELATED SOFTWARE - REOPT is a companion to the full RAAS methodology, an expert system intended to be an advisory tool for support to conductive remedial investigations/feasibility studies under CERCLA or corrective measures under RCRA. REOPT is currently available only as a stand-alone application. IT CONTAINS AN EMBEDDED VERSION OF OMNIS 7 SOFTWARE BY BLYTH SOFTWARE, INC. A RUN TIME COPY OF OMNIS 7 IS BUNDLED WITH THE REOPT SOFTWARE; A LICENSE FOR OMNIS 7 (AND ASSOCIATED INSTALLATION KEY) IS REQUIRED TO RUN REOPT.

OTHER PROG/OPER SYS INFO - THE REOPT SOFTWARE PACKAGE CONTAINS AN EMBEDDED RUN TIME VERSION OF OMNIS 7 WITHIN IT THAT REQUIRES EACH USER TO PURCHASE A RUN TIME LICENSE FROM BLYTH SOFTWARE, INC., THE DEVELOPERS OF OMNIS 7. THE REOPT DEVELOPERS USED OMNIS 7 TO CROSS PLATFORM THE SOFTWARE TO THE MACINTOSH COMPUTER SYSTEMS. THE END USER WILL NEED TO ACQUIRE THEIR OWN UNIQUE ACTIVATION NUMBER(S). EACH INITIAL USER OF THE REOPT SOFTWARE WILL NEED TO CONTACT BLYTH SOFTWARE AT (415) 513-0580 TO GET A UNIQUE ACTIVATION NUMBER ASSIGNED. THE RUN LICENSE WILL HAVE A COST ASSOCIATED WITH ITS ACQUISITION OF BETWEEN $200 AND $250 PER USER.

HARDWARE REQS - MacIntosh II (ci, cx, or fx) class personal computers. At least 5MB of RAM, preferably 8MB of RAM: 12 MB of hard disk space available.

TIME REQUIREMENTS - REOPT functions like a real-time, electronic encyclopedia, quickly sorting and screening information within the user-defined parameters of: contaminated medium; contaminant; and the restoration action to be taken. Most executions within the code occur in a matter of seconds; the longest wait is less than one minute to load.

REFERENCES - M.K. White and J.L. Bryant, ReOpt V2.0 User Guide, PNL-7840, October 1992.

ABSTRACT STATUS - Submitted January 1993.

SUBJECT CLASS CODE - R

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KEYWORDS -
COMPUTER PROGRAM DOCUMENTATION
R CODES
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WASTE MANAGEMENT
FEASIBILITY STUDIES

EDB SUBJECT CATEGORIES -
990200 540000

SPONSOR - DOE/ER

PACKAGE TYPE - AS - IS