

PACKAGE ID - 001235IBMPC00 IES

KWIC TITLE - Air Emission, Liquid Effluent Inventory and Reporting

AUTHORS - Chapman, T.
Idaho National Engineering and Environmental Lab.,
Idaho Falls, ID (United States)

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

COMPLETION DATE - 10/01/1996 **PUBLICATION DATE** - 10/01/1996

DESCRIPTION - The IES maintains an inventory of radiological air and liquid effluents released to the atmosphere. The IES utilizes the official stack numbers. Data may be entered by generators for any monitoring time period. Waste volumes released as well as their radiological constituents are tracked. The IES provides data to produce a report for NESHAPS as well as several administrative action/anomaly reports. These reports flag unusual occurrences (releases) that are above normal range releases.

PACKAGE CONTENTS - Media Directory; Software Abstract; Media Includes Source Code, Object Library, User's Instructions, Files have been zipped into IES.ZIP;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 10 3.5 Diskettes

METHOD OF SOLUTION - The IES was developed using the Radioactive Waste Management Information System (RWMIS) as a model. Certain areas of the application and data were re-engineered to more adequately meet user requirements and provide greater flexibility. It was developed as a data-driven system, which means by populating tables with the data the application can be customized for specific needs. It was developed using Oracle's Developer/2000 tool.

COMPUTER - IBM PC

OPERATING SYSTEMS - Windows 95, Windows NT, Dec Alpha OSF/1

PROGRAMMING LANGUAGES - Oracle's Developer/2000 version 1.3

SOFTWARE LIMITATIONS - Software limitations are based upon the number of licenses purchased from Oracle Corporation as well as the number of valid operating system licenses. No limitations have been built into IES.

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - The data-driven attribute of the IES allows the application to work for any location necessary to maintain air

PACKAGE ID - 001235IBMPC00 IES

UNIQUE FEATURES - (CONT) emissions and liquid effluent releases information. The IES includes a plethora of reports that can be customized by the end user changing parameters via an Oracle Form. A set of graphics reports are also available providing a unique view of the data.

RELATED SOFTWARE - The IES uses Oracle's print manager that utilizes the print utility in the Microsoft Windows operating system products.

OTHER PROG/OPER SYS INFO - Form and form template modules have the file extension .FMB (executables are .RDX), graphics modules have the file extension .OGD SQL script modules have the file extension .SQL While executing the application, messages may appear on the screen as a pop-up window that displays a predefined message to notify the user of some condition that resulted from an action. Many forms operations require commit or rollback modifications before proceeding. For example, if modifying the current block, but do not commit the modifications, Oracle Forms displays a pop-up action window. If the user responds Y, Oracle Forms commits the modifications. If the user responds N, Oracle Forms discards the modifications then proceeds with the next command. Most of the actions described in the messages are self-explanatory and identify the method to proceed. Some of the messages require immediate System Administrator notification.

HARDWARE REQS - Client hardware required for use with IES is a personal computer running the Windows 95 or NT operating system, 32 MB RAM, Pentium processor, network board and connectivity software (to make connection to server). Server hardware requirements - file storage depends on the volume of data expected (i.e. number of release points, frequency of reporting periods, etc.). The only other requirement for the server hardware is it must be adequate to run the Oracle RDBMS version 7.3 on it (check with Oracle Corporation for the latest system requirements). A design requirement for this application was that it be portable. It must be capable of moving across various hardware platforms. Because the Oracle RDBMS was selected as the database, and Oracle Forms and Reports were selected as the user-interface tools, the only hardware constraint is that hardware is limited to only those platforms on which Oracle Corporation certifies their product.

TIME REQUIREMENTS - Response time depends upon the hardware platform running the application. The system was designed for on-line transaction access.

ABSTRACT STATUS - Released AS-IS August 19, 1998.

SUBJECT CLASS CODE - M

KEYWORDS -

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COMPUTER PROGRAM DOCUMENTATION
I CODES
AIR
AIR POLLUTION MONITORING
AIR QUALITY
BUILDINGS
COMPUTER GRAPHICS
DATA
DATA PROCESSING
DISPERSIONS
DISTRIBUTED DATA PROCESSING
EMISSION
ENVIRONMENT
FORECASTING
INFORMATION SYSTEMS
INVENTORIES
ISOTOPES
LIQUID WASTES
LIQUIDS
RADIOACTIVE EFFLUENTS
RADIOACTIVE WASTE DISPOSAL
RADIOACTIVE WASTE FACILITIES
RADIOACTIVE WASTE MANAGEMENT
RADIOACTIVE WASTES
RADIOACTIVITY
RADIOISOTOPES
STACK DISPOSAL
VENTS
WASTE DISPOSAL
WASTE MANAGEMENT

EDB SUBJECT CATEGORIES -

990200 052002 052000 540130 540230 540330

SPONSOR - DOE/DP

PACKAGE TYPE - AS - IS