

PACKAGE ID - 000570D406000 ESHTRK V2.0

KWIC TITLE - Environment Safety and Health TRaCKing
Database

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

COMPLETION DATE - 10/01/1992 **PUBLICATION DATE** - 10/01/1992

DESCRIPTION - The purpose of the ESHTRK V2.0 database application is to track reviews, findings, responsibilities, corrective actions, action plans, etc., that are created as the result of both external and internal audits of an organization's activities with respect to that organization's compliance with Environmental, Health, and Safety regulations as well as orders, policies, etc. It solves the problem of providing awareness throughout an organization of the existence of findings, the commitments of corrective actions and their scheduled and actual completion dates. The product also solves the problem of monitoring milestone scheduled and actual completion dates for long term, multi-step action plans. The product provides Oracle FORMS data entry screens for the entry of review and finding information, data entry screens for the entry and updating of responsibility assignments, and data entry screens for the entry and updating of corrective action and action plan information. In addition, the product provides reports showing open findings, responsibilities, counts of findings by review and so forth. The product's functions and capabilities are based on many supporting tables which are expected to be populated by entries for an organization's locations, organizational structure, people, acronyms for finding types (implemented as DOE Performance Objectives in one case), and root cause analysis methodology (implemented as the copyrighted TAPROOT approach in one case).

PACKAGE CONTENTS - Software Abstract; Media Directory; User's Training Manual; Media Includes Source, Auxiliary Module, Control Information, VMS Backup Save Set;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 CD Rom

METHOD OF SOLUTION - A systems analysis of the requirements of ES&H professionals, laboratory managers, and laboratory administrative personnel was made in the area of their ES&H finding tracking needs. The results of this analysis were entered into the Oracle CASE product. From this CASE model, a database, the ESHTRK V2.0 application, and all data entry and query forms were created.

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METHOD OF SOLUTION - (CONT) Additional reports were added to the product's report submission facility based on user requests.

COMPUTER - DEC VAX4000/60

OPERATING SYSTEMS - VAX/VMS V5.5

PROGRAMMING LANGUAGES - ORACLE SQL (90%) DCL (10%)

SOFTWARE LIMITATIONS - No particular limitations other than available disk space and available CPU resources. The product has been used successfully with over 2,000 reviews and 30,000 findings on a VAXstation 4000/60 with SCSI disk drives supplying the disk capability. A maximum of approximately 12 simultaneous users have used the system, but this number is entirely determined by operating system license limits, not the product itself.

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - The product makes very few assumptions specific to the original implementing organization. As a result, it may be of wide applicability to any organization which conducts independent reviews of activities, determines problems (findings) as a result of those reviews, and assigns responsibilities for these problems to specific individuals within the line management chain. The product's ability to track the delegation of responsibility further down the line management chain, with the ability to create corrective actions and action plans at lower line management levels as well may be of interest.

RELATED SOFTWARE - ORACLE Database Management Software

OTHER PROG/OPER SYS INFO - ORACLE DBMS software is required. The usual VMS and ORACLE file naming conventions are used.

HARDWARE REQS - Any system running ORACLE 6.0.34 or compatible versions of the ORACLE DBMS should be capable of running this product. It has been run successfully under SUN UNIX and more extensively under VAX/VMS V5.5 on a VAXstation 4000/60 with 32MB of memory and 4 WREN VII SCSI disks. These are not mandatory. It has also been used in client-server relationship with other VAX/VMS systems running ORACLE and with MACINTOSH computers using ORACLE and/or CLEARACCESS.

TIME REQUIREMENTS - Response time for data entry in the environments described is typically under a few seconds. Report generating times are typically one to two minutes or less for modest size (20 page) reports. Query times are on the order of a few tens of seconds for queries against 30,000 findings though the precise structure of the query (string search, etc.) is important in determining these figures.

E S T S C
ENERGY SCIENCE & TECHNOLOGY SOFTWARE CENTER
SOFTWARE ABSTRACT

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REFERENCES - D. Ritchie, ESHTRK V2.0 User's Manual, 1992.

ABSTRACT STATUS - Submitted March 1993.

SUBJECT CLASS CODE - RMG

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
E CODES
COMPLIANCE AUDITS
ENVIRONMENTAL POLICY

EDB SUBJECT CATEGORIES -
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SPONSOR - DOE/CO

PACKAGE TYPE - AS - IS