

PACKAGE ID - 000665IBMPC00 THIEF

KWIC TITLE - Interactive Simulation of Nuclear Materials
Safeguards and Security

AUTHORS - Stanbro, W.D.
Los Alamos National Lab., NM (United States)

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

COMPLETION DATE - 08/22/1991 **PUBLICATION DATE** - 08/22/1991

DESCRIPTION - THIEF is an interactive computer simulation or computer game of the safeguards and security (S&S) systems of a nuclear facility. The user is placed in the role of a non-violent insider attempting to remove special nuclear material from the facility. All portions of the S&S system that are relevant to the non-violent insider threat are included. The computer operates the S&S systems and attempts to detect the loss of the nuclear material. Both the physical protection system and the materials control and accounting system are modeled. The description of the facility and its S&S systems are defined by the user with the aid of an input module. All aspects of the facility description are provided by the user. The program has a custom graphical user interface to facilitate its use by people with limited computer experience. The custom interface also allows it to run on relatively small computer systems.

PACKAGE CONTENTS - Media Directory; Software Abstract; LA-12214-M;
Media Includes Source Code, Object Module;

SOURCE CODE INCLUDED? - Yes

MEDIA QUANTITY - 1 3.5 Diskette

METHOD OF SOLUTION - Interactive simulation.

COMPUTER - IBM PC

OPERATING SYSTEMS - MS-DOS 3.3 or later

PROGRAMMING LANGUAGES - Borland C++2.0 (60%) and C++ (40%)

SOFTWARE LIMITATIONS - Limited to one enclosure and two buildings.

SOURCE CODE AVAILABLE (Y/N) - Y

UNIQUE FEATURES - THIEF is an interactive simulation, or game in which the user takes the role of the adversary. THIEF treats all aspects of a nuclear facility's safeguards and security systems that pertain to the insider threat.

RELATED SOFTWARE - This is an update of THIEF 1.0.

PACKAGE ID - 000665IBMPC00 THIEF

OTHER PROG/OPER SYS INFO - Data files end with .DAT, and output files end with .PRN.

HARDWARE REQS - IBM PC compatible with 640K of RAM, EGA or VGA graphics adapter, and a high density disk drive. A hard disk and a color monitor are strongly recommended.

REFERENCES - W.D. Stanbro and P.W. Henriksen, THIEF An Interactive Simulation of Nuclear Materials Safeguards and Security, LA-12214-M, December 1991.

ABSTRACT STATUS - Submitted March 1994. Released screened April 25, 1994.

SUBJECT CLASS CODE - GDTP

KEYWORDS -

COMPUTER PROGRAM DOCUMENTATION
T CODES
SAFEGUARDS
SECURITY
INTERACTIVE DISPLAY DEVICES
NUCLEAR MATERIALS MANAGEMENT
INTRUSION DETECTION SYSTEMS
SIMULATION

EDB SUBJECT CATEGORIES -
990200 055001

SPONSOR - DOE/DP

PACKAGE TYPE - SCREENED