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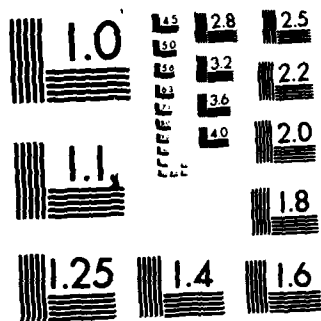
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THE DLSIE STUDIES TAPE

by

W. E. Caves  
W. H. Marlow

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STUDENTS FACULTY STUDY  
RESEARCH DEVELOPMENT FUTURE CAREER CREATIVITY COMMUNITY LEADERSHIP TECHNOLOGY FRONTIERS DESIGN ENGINEERING APPLICATIONS GEORGE WASHINGTON UNIVERSITY



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THE DLSIE STUDIES TAPE

by

W. E. Caves  
W. H. Marlow

Program in Logistics  
GWU/IMSE/Serial T-478/83  
30 August 1983

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  DATA BASE DATA ENTRY DATA RETRIEVAL  LOGISTICS MODELS LOGISTICS STUDIES		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Defense Logistics Studies Information Exchange (DLSIE) produced a magnetic tape file version of a custom bibliography as a one-time accommodation for the Program in Logistics. The present report describes this tape and some associated data. Appendix A is the 145-page "DLSIE studies tape LD index." Appendix B is the 51-page "One percent sample from DLSIE studies tape."		

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THE DLSIE STUDIES TAPE

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Abstract  
of  
Program in Logistics  
GWU/IMSE/Serial T-478/83  
30 August 1983

The Defense Logistics Studies Information Exchange (DLSIE) produced a magnetic tape file version of a custom bibliography as a one-time accommodation for the Program in Logistics. The present report describes this tape and some associated data. Appendix A is the 145-page "DLSIE studies tape LD index." Appendix B is the 51-page "One percent sample from DLSIE studies tape."



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THE DLSIE STUDIES TAPE

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Program in Logistics  
GWU/IMSE/Serial T-478/83  
30 August 1983

0. Summary

As described in Reference [3], the Defense Logistics Studies Information Exchange (DLSIE) produced a magnetic tape file version of a custom bibliography, namely, the "DLSIE studies tape," as a one-time accommodation to assist the Program in Logistics in completing its subcontract with the Air Force Logistics Management Center (AFLMC). Production was achieved by altering standard computer programs used by DLSIE whereby all "write to printer" commands were replaced by "write to tape." Reference [1] treats the de-editing of the tape and the generation of input to STAIRS [4] at the AFLMC. The present report describes the DLSIE studies tape and some associated data. Appendix A is the 145-page "DLSIE studies tape LD index." Appendix B is the 51-page "One percent sample from DLSIE studies tape." Reference [2] treats the associated DLSIE models tape.

1. The custom bibliography

A custom bibliography was produced by DLSIE on 1 August 1983 with resulting output of a magnetic tape file rather than a standard computer printout. All such bibliographies are collections of study abstracts, each one of which summarizes a single document by means of a one- or two-page computer printout. The search criteria in the present case were the following.

Only completed documents with publication dates  
in 1978 or later

All documents sponsored or performed by the  
U.S. Air Force

All aircraft-related documents by all sponsors  
and all performers

All documents entered from periodical publishers  
(for all sponsors, all performers, and all topics)

A total of 5,774 documents satisfied these criteria. The machine-readable version was recorded on a reel of nine-track 1600 BPI tape. The printed version would have consisted of over 6,000 pages--about 2 1/2 standard cartons of paper--and it was not printed. Instead, as noted above, an index and a one percent sample were printed for inclusion as appendixes to the present report.

The first entry in each line in Appendix A is the four-digit document number which records the serial location of the document on the tape. Second is the logistics document (LD) number which DLSIE assigns and uses to prepare custom bibliographies and to furnish microfiche copies of documents it distributes. The initial segment of the title appears third on each line and it is followed by the initial segment of the name of the performing organization (or name of the periodical publication).

## 2. Input for STAIRS

As described in [1], the DLSIE studies tape was de-edited and data were generated for input of the documents to STAIRS [4] at the AFLMC. This can be viewed as rewriting the DLSIE data elements--the entries which appear in their study abstracts--in the form of 72-column card images. For STAIRS, the "card types" are identified by three-character STAIRS "paragraph codes" as shown in Table 1 and these 35 codes cover all of the DLSIE entries appearing in study abstracts. The nine-character "Labels" are abbreviated identifiers which appear when results from STAIRS are displayed or printed. Prefixes "D-" denote codes for data originating at DLSIE. Entries "AFLMC Standard" under "Contents" in Table 1 identify codes previously used for STAIRS at the AFLMC. Code 910, D-AGENCY, generally identifies sponsors, performers, or publishers; there are eight possible entries, namely, Department of Defense, Department of the Army, Department of the Air Force, Department of the Navy, Defense Logistics Agency, Non-Governmental Agencies--Independent Research, Periodical Publishers, and Other Governmental Agencies. Agency is commonly the primary sequence, and LD number is the secondary, for DLSIE products.

Table 1. STAIRS Paragraph Codes for the DLSIE Studies Tape

Code	-Label--	Contents
***	(Doc No)	AFLMC Standard: LD NUMBER
0A0	DATE:	AFLMC Standard: 19YY Only
010	TITLE:	AFLMC Standard: TITLE
020	AUTHOR:	AFLMC Standard: AUTHOR (S)
030	RPT-NUM:	AFLMC Standard: AGENCY REPORT NUMBER
040	TYPE:	AFLMC Standard: TYPE DOCUMENT
050	PERFORMER	AFLMC Standard: PERFORMING ORGANIZATION
052	D-P-CONTA	CONTACT
054	D-P-PHONE	PHONE NUMBER
056	D-P-ATTEN	ATTENTION
058	D-P-CONTR	CONTRACT NO.
060	SPONSOR:	AFLMC Standard: SPONSOR
062	D-S-CONTA	CONTACT
064	D-S-PHONE	PHONE NUMBER
066	D-S-ATTEN	ATTENTION
070	PAGES:	AFLMC Standard: NUMBER OF PAGES
080	CLASS:	AFLMC Standard: SECURITY CLASSIFICATION
092	D-AD #	AD NUMBER
094	D-RELEASE	RELEASE LIMITATION
096	D-AVAILAB	AVAILABLE FROM
102	D-SUBJECT	SUBJECT
104	D-FUNCTIO	FUNCTION
106	D-DESCRIP	DESCRIPTOR
110	ABSTRACT:	AFLMC Standard: ABSTRACT
112	D-CONCLUS	CONCLUSIONS
114	D-RECOMME	RECOMMENDATIONS
116	D-IMPLEME	IMPLEMENTING ACTIONS
900	D-PRODUCT	DLSIE PRODUCT = STUDY ABSTRACT
910	D-AGENCY	AGENCY = one of eight possible entries
920	D-SEARCH#	DLSIE SEARCH NUMBER
930	D-TIFRAME	TIME FRAME
940	D-STATUS	STATUS
950	D-START	DATE STARTED
960	D-COMPLET	EXPECTED COMPLETION DATE
970	D-UPDATE	DATE OF LAST UPDATE AT DLSIE

Table 2 contains the STAIRS "Paragraph class names" that go with the displayed intervals of STAIRS paragraph codes. If the interval consists of one number, for example, as in the case of 010, then there is only one code that goes with the class name. Otherwise, there can be more than one; for example, codes 050, 052, 054, 056, and 058 in Table 1 go together into the STAIRS paragraph labeled "PERFORMER."

Table 2. STAIRS Paragraph Class Names

INTERVAL	NAMES
*** ***	(DOC NO)
0A0 0A0	DATE:
010 010	TITLE:
020 020	AUTHOR:
030 030	RPT-NUM:
040 040	TYPE:
050 059	PERFORMER
060 066	SPONSOR:
070 070	PAGES:
080 080	CLASS:
090 096	DISTRIB:
100 100	KEYWORDS:
102 102	D-SUBJECT
104 104	D-FUNCTIO
106 106	D-DESCRIP
110 119	ABSTRACT:
800 816	D-MODEL1
818 842	D-MODEL2
900 970	D-IDENTIF

Table 2 actually lists all STAIRS paragraph class names for this application at the AFLMC; for example, D-MODEL1 and D-MODEL2 pertain to the DLSIE models tape [2] and not to the present studies tape.

The KEYWORDS paragraph in Table 2 refers to the AFLMC class name for entries taken from Forms DD1473 and other sources. Paragraphs numbered 102, 104, and 106 pertain to subject areas, functions (categories for studies), and descriptors, respectively, assigned and used at DLSIE to classify the documents in their data base. There appear to be eight different subjects, about 30 categories, and over 2,000 descriptors for the DLSIE studies data base.

### 3. One percent sample

Appendix B is a 51-page listing, "One percent sample from DLSIE studies tape," where all data for 58 documents appear identified by corresponding STAIRS paragraph codes from Table 1. The sample consists of every 100th document where the sequencing of the tape--primary is agency and secondary is LD number, as noted above--was retained. The final columns in Appendix B contain the serial document numbers for the tape and the line numbers within STAIRS paragraph codes.

Generally there is one document per page in Appendix B but some documents require more than one page and others fit two per page. Minor imperfections--for example, missing initial letters such as in 110, 112, and 116 on page 7 and originating from variations in initial columns for original data entry--will cause no difficulties in searches using STAIRS; they could easily be removed by refining the programs in [1].

Given that 57 documents require 51 pages in Appendix B, the entire custom bibliography would require about 5,000 pages and, even in the present compactly printed two-sided form, it would be about 11 inches thick.

### 4. Common entries

Cross references for the custom bibliography and the related catalog of models are presented in [2].

## REFERENCES

- [1] CAVES, W. E. (1983). The DLSIE computer programs. Technical Memorandum Serial TM-72630.
- [2] CAVES, W. E. and W. H. MARLOW (1983). The DLSIE models tape. Technical Paper Serial T-479.
- [3] CAVES, W. E., W. H. MARLOW and S. ZACKS (1983). Final report on a logistics source material system for the Air Force Logistics Management Center. Technical Paper Serial T-476.
- [4] IBM CORPORATION (1981). Terminal User's Guide SB21-2783-1. Storage and Information Retrieval System/Conversational Monitor System (STAIRS/CMS). Field Developed Program Number 5785-CAH.

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DLSE STUDIES TAPE LD INDEX

71 LD 23539K	AIRCRAFT MAINTENANCE REQUIREMENTS, HEADQUARTERS, . . . . .	US ARMY AUDIT AGENCY, WASHINGTON, DC 20315
72 LD 23675G	MANAGEMENT OF AIRCRAFT, 7TH INFANTRY DIVISION AND . . . . .	US ARMY AUDIT AGENCY, WASHINGTON, DC 20315
73 LD 26893Z	DEPOT MAINTENANCE, US ARMY TROOP SUPPORT AND . . . . .	US ARMY AUDIT AGENCY, WASHINGTON, DC 20315
380 LD 31642A	INTEGRATED LOGISTICS DATA FILE FOR A-10.	SACRAMENTO ALC, MC CLELLAN AFB, CA 95652
5547 LD 31757P	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 5	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5548 LD 31757Q	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 6.	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5549 LD 31757R	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 7.	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5550 LD 31757S	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 8.	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5551 LD 31757T	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 9	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5552 LD 31757U	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 10.	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
5553 LD 31757V	GENERAL AVIATION INSPECTION AIDS, SUPPLEMENT NO. 11.	DEPARTMENT OF TRANSPORTATION, FEDERAL AVIATION . . . . .
74 LD 32284B	THE OH-58 MODERNIZATION PROGRAM, US ARMY TROOP . . . . .	US ARMY AUDIT AGENCY, WASHINGTON, DC 20315
75 LD 32292A	THE ARMY SCOUT HELICOPTER PROGRAM, REPORT OF AUDIT.	US ARMY AUDIT AGENCY, WASHINGTON, DC 20315
104 LD 33813A	CH-47C SELF-DEPLOYABLE CAPABILITY TO EUROPE. SHORT . . . . .	US ARMY TRANSPORTATION SCHOOL, OFFICE OF THE DEPUTY . . . . .
82 LD 33813BZ	CH-47C SELF-DEPLOYABLE CAPABILITY TO EUROPE (SHORT . . . . .	US ARMY TRANSPORTATION SCHOOL, OFFICE OF THE DEPUTY . . . . .
516 LD 34517B	RELIABILITY OF NONDESTRUCTIVE INSPECTIONS. FINAL REPORT.	LOCKHEED, GEORGIA COMPANY, MARIETTA, GA 30060
482 LD 34522AX	AGMC OPERATING PRODUCTIVITY PROGRAM.	AEROSPACE GUIDANCE AND METROLOGY CENTER, NEWARK AIR . . . . .
3392 LD 35322AZ	MEDICAL AND DENTAL SUPPORT SYSTEM (1984-1993) (U). V. 1.	MARINE CORPS DEVELOPMENT AND EDUCATION COMMAND, . . . . .
3393 LD 35322BZ	MEDICAL AND DENTAL SUPPORT SYSTEM (1984-1993) (U). V. 2.	MARINE CORPS DEVELOPMENT AND EDUCATION COMMAND, . . . . .
3394 LD 35322CZ	MEDICAL AND DENTAL SUPPORT SYSTEM (1984-1993) (U). V. 3.	MARINE CORPS DEVELOPMENT AND EDUCATION COMMAND, . . . . .
3235 LD 36754B	IDENTIFICATION OF PERSONNEL REQUIREMENTS TO OPERATE. . . . .	NAVAL AVIATION LOGISTICS CENTER, NAVAL AIR STATION, . . . . .
146 LD 36770D	HISTORICAL INFLATION PROGRAM (A COMPUTERIZED PROGRAM . . . . .	US ARMY TROOP SUPPORT AND AVIATION MATERIEL . . . . .
147 LD 36770E	HISTORICAL INFLATION PROGRAM. A COMPUTER PROGRAM . . . . .	US ARMY TROOP SUPPORT AND AVIATION MATERIEL . . . . .
148 LD 36770G	HISTORICAL INFLATION PROGRAM. A COMPUTER PROGRAM . . . . .	US ARMY TROOP SUPPORT AND AVIATION MATERIEL . . . . .
83 LD 37222FZ	AVIATION REQUIREMENTS FOR THE COMBAT STRUCTURE OF . . . . .	US ARMY AVIATION CENTER, FORT RUCKER, AL 36362
84 LD 37222GZ	AVIATION REQUIREMENTS FOR THE COMBAT STRUCTURE OF . . . . .	US ARMY AVIATION CENTER, FORT RUCKER, AL 36362
85 LD 37222HZ	AVIATION REQUIREMENTS FOR THE COMBAT STRUCTURE OF . . . . .	US ARMY AVIATION CENTER, FORT RUCKER, AL 36362
950 LD 37454B	AIR FORCE SYSTEMS COMMAND RESEARCH PLANNING GUIDE . . . . .	AIR FORCE SYSTEMS COMMAND, ANDREWS AIR FORCE BASE, . . . . .
1922 LD 37457A	STUDY OF AIR FORCE AIRCRAFT WEIGHT AND BALANCE . . . . .	AIR FORCE LOGISTICS MANAGEMENT CENTER (ATC), GUNTER . . . . .
258 LD 37457B	WEIGHT AND BALANCE LEAD BASE IMPLEMENTATION TEST AND . . . . .	AIR FORCE LOGISTICS MANAGEMENT CENTER (ATC), GUNTER . . . . .
1923 LD 37458A	SMALL SHIPMENT METHODS PROJECT. INTERIM STATUS REPORT.	AIR FORCE LOGISTICS MANAGEMENT CENTER (ATC), GUNTER . . . . .
1924 LD 37458B	TITAN II RELIABILITY AND AGING SURVEILLANCE PROGRAM . . . . .	AIR FORCE LOGISTICS MANAGEMENT CENTER (ATC), GUNTER . . . . .
540 LD 37814B	CALCULATION OF REACTIONARY FORCES IN CARO TIEDOWN . . . . .	OGDEN ALC, HILL AFB, UT 84401
956 LD 38397A	SELECTING BASE CIVIL ENGINEERING FUNCTIONS FOR . . . . .	AIR FORCE WEAPONS LABORATORY, AIR FORCE SYSTEMS . . . . .
405 LD 38699A	HARD FLUSH AIRCRAFT SHELTER TEST DATA ANALYSIS (DICE . . . . .	AIR FORCE LOGISTICS COMMAND, ENGINEERING AND . . . . .
957 LD 38984B	NUCLEAR CARGO MULTITIEDOWN ANALYSIS PROGRAM. V. I - . . . . .	THE BOEING COMPANY, SEATTLE, WASH. 98124
958 LD 39218A	NUCLEAR CARGO MULTITIEDOWN ANALYSIS PROGRAM. V. II - . . . . .	BDM CORP., 7915 JONES BRANCH DR., MCLEAN, VA 22101
959 LD 39218B	SUSTAINABILITY PREDICTIONS FOR ARMY SPARE COMPONENT . . . . .	BDM CORP., 7915 JONES BRANCH DR., MCLEAN, VA 22101
132 LD 39465E	CIVILIAN GROUND SAFETY OFFICER JOB AND TRAINING . . . . .	DARCOM MATERIEL SYSTEMS ANALYSIS ACTIVITY, ABERDEEN . . . . .
846 LD 39671AX		AIR FORCE HUMAN RESOURCES LABORATORY, LACKLAND AFB, . . . . .

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## ONE PERCENT SAMPLE FROM DLSIE STUDIES TAPE

DOCUMENT NUMBER	*** LD 43704B	00001001
DATE	0A0 1979	00001001
TITLE	010 DEFENSE RESOURCE MANAGEMENT STUDY. CASE STUDIES OF LOGISTICS SUPPORT ALTERNATIVES.	00001001 00001002 00001001
TYPE-OF-REPORT	040 REPORT	00001001
PERFORMER	050 OFFICE OF THE SECRETARY OF DEFENSE, WASHINGTON, DC 20301	00001001
D-PERF-CONTACT	052 DONALD B. RICE, DIRECTOR	00001001
SPONSOR	060 OFFICE OF THE SECRETARY OF DEFENSE, WASHINGTON, DC 20301	00001001
PAGES	070 268	00001001
CLASSIFICATION	080 UNCLASSIFIED	00001001
D-RELEASE-LIMIT	094 UNLIMITED	00001001
D-AVAILABLE-FROM	096 DLSIE	00001001
D-SUBJECT	102 RESOURCES	00001001
D-FUNCTION	104 MANAGEMENT	00001001
D-DESCRIPTORS	106 LOGISTICS SUPPORT AIRCRAFT CARRIERS B-52 KC-135 A-10 HELICOPTERS TRACKED VEHICLES MANPOWER REQUIREMENTS FORCE STRUCTURE	00001001 00001002 00001003 00001004 00001005 00001006 00001007 00001008 00001009
ABSTRACT	110 (1) THE DEFENSE RESOURCE MANAGEMENT STUDY (DRMS) WAS COMMISSIONED BY THE SECRETARY OF DEFENSE IN NOVEMBER 1977 IN RESPONSE TO A REQUEST BY THE PRESIDENT DATED SEPTEMBER 20, 1977. THE PRESIDENT WANTED A 'SEARCHING ORGANIZATIONAL REVIEW' INTO SEVERAL RESOURCE MANAGEMENT ISSUES. THE DRMS FOCUSED ON FIVE TOPICS WITHIN THE BROAD AREA OF RESOURCE MANAGEMENT: (A) RESOURCE ALLOCATION DECISION PROCESS (PPBS); (B) WEAPON SYSTEM ACQUISITION PROCESS; (C) LOGISTICS SUPPORT OF COMBAT FORCES; (D) CAREER MIX OF ENLISTED MILITARY PERSONNEL; AND (E) MILITARY HEALTH CARE SYSTEM. (2) THIS COMPANION REPORT PRESENTS FIVE CASE STUDIES OF LOGISTICS SUPPORT ALTERNATIVES. THESE CASE STUDIES FURNISH PART OF THE BASIS FOR THE DESIGN PRINCIPLES FOR LOGISTICS ACTIVITIES DESCRIBED IN CHAPTER III OF THE FINAL REPORT. THEY ALSO POINT OUT SPECIFIC OPPORTUNITIES TO IMPROVE DEFENSE LOGISTICS ACTIVITIES, AND ILLUSTRATE SPECIAL ADAPTATIONS THAT MUST BE MADE TO THE GENERAL PRINCIPLES IN CONCRETE APPLICATIONS. THE CASE STUDIES CENTERED ON: (A) NAVY CARRIER-BASED AIR UNITS; (B) AIR FORCE B-52/KC135 WEAPON SYSTEMS; (C) AIR FORCE A-10; (D) ARMY HELICOPTERS; AND (E) ARMY TRACKED COMBAT VEHICLES.	00001001 00001002 00001003 00001004 00001005 00001006 00001007 00001008 00001009 00001010 00001011 00001012 00001013 00001014 00001015 00001016 00001017 00001018
D-CONCLUSIONS	112 FOUR DESIGN PRINCIPLES EMERGE FROM THESE CASE STUDIES THAT SHOULD GUIDE THE FUTURE EVOLUTION OF LOGISTICS SUPPORT STRUCTURES: (A) FOCUS THE MAINTENANCE CAPABILITY OF COMBAT UNITS (ARMY DIVISIONS, NAVY AND AIR FORCE WINGS) ON QUICK-TURNAROUND REPAIR, LIMITING THEIR NEED TO PERFORM OFF-EQUIPMENT MAINTENANCE. THIS WILL FREE THE COMBAT UNITS FROM A CUMBERSOME LOGISTICS BURDEN, MAKING THEM MORE ABLE TO RESPOND TO FLUID BATTLE CONDITIONS. (B) CONSOLIDATE OFF-EQUIPMENT MAINTENANCE AT A LEVEL THAT PERMITS CAPTURE OF ECONOMIES OF SCALE AND REDUCES THE VULNERABILITY OF SOME SUPPORT RESOURCES. THE SPECIFIC DESIGN FOR EACH WEAPON SYSTEM WILL BE DICTATED BY WEAPON TECHNOLOGY, SUPPORT TECHNOLOGY, ECONOMICS, AND THE COMBAT TASK. (C) GIVE THEATER OR FLEET COMMANDERS THE CAPABILITY TO REALLOCATE SUPPORT RESOURCES ACROSS COMBAT UNITS; SO AS TO ADJUST QUICKLY TO THE RAPIDLY CHANGING WARTIME ENVIRONMENTS THEY ARE LIKELY TO FACE. (D) REDUCE, BUT NOT ELIMINATE, THE DEPENDENCE OF COMBAT UNITS ON THE CONUS WHOLESALE STRUCTURE FOR BOTH MAINTENANCE AND SUPPLY SUPPORT IN ORDER TO MAKE THE THEATER SOMEWHAT MORE SELF-SUFFICIENT.	00001001 00001002 00001003 00001004 00001005 00001006 00001007 00001008 00001009 00001010 00001011 00001012 00001013 00001014 00001015 00001016 00001017
D-PRODUCT	900 STUDY ABSTRACT	00001001
D-AGENCY	910 DEPARTMENT OF DEFENSE	00001001
D-SEARCH-NUMBER	920 83-01202	00001001
D-STATUS	940 COMPLETED	00001001
D-UPDATE-DATE	970 APR 79	00001001

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**BENEATH THIS PLAQUE  
IS BURIED  
A VAULT FOR THE FUTURE  
IN THE YEAR 2056**

**THE STORY OF ENGINEERING IN THIS YEAR OF THE PLACING OF THE VAULT AND  
ENGINEERING HOPES FOR THE TOMORROWS AS WRITTEN IN THE RECORDS OF THE  
FOLLOWING GOVERNMENTAL AND PROFESSIONAL ENGINEERING ORGANIZATIONS AND  
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**THE PURPOSE OF THIS VAULT IS INSPIRED BY AND IS DEDICATED TO  
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BECAUSE OF HIS ENGINEERING CONTRIBUTIONS TO THIS UNIVERSITY TO HIS  
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**JUNE 14, 1956**

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