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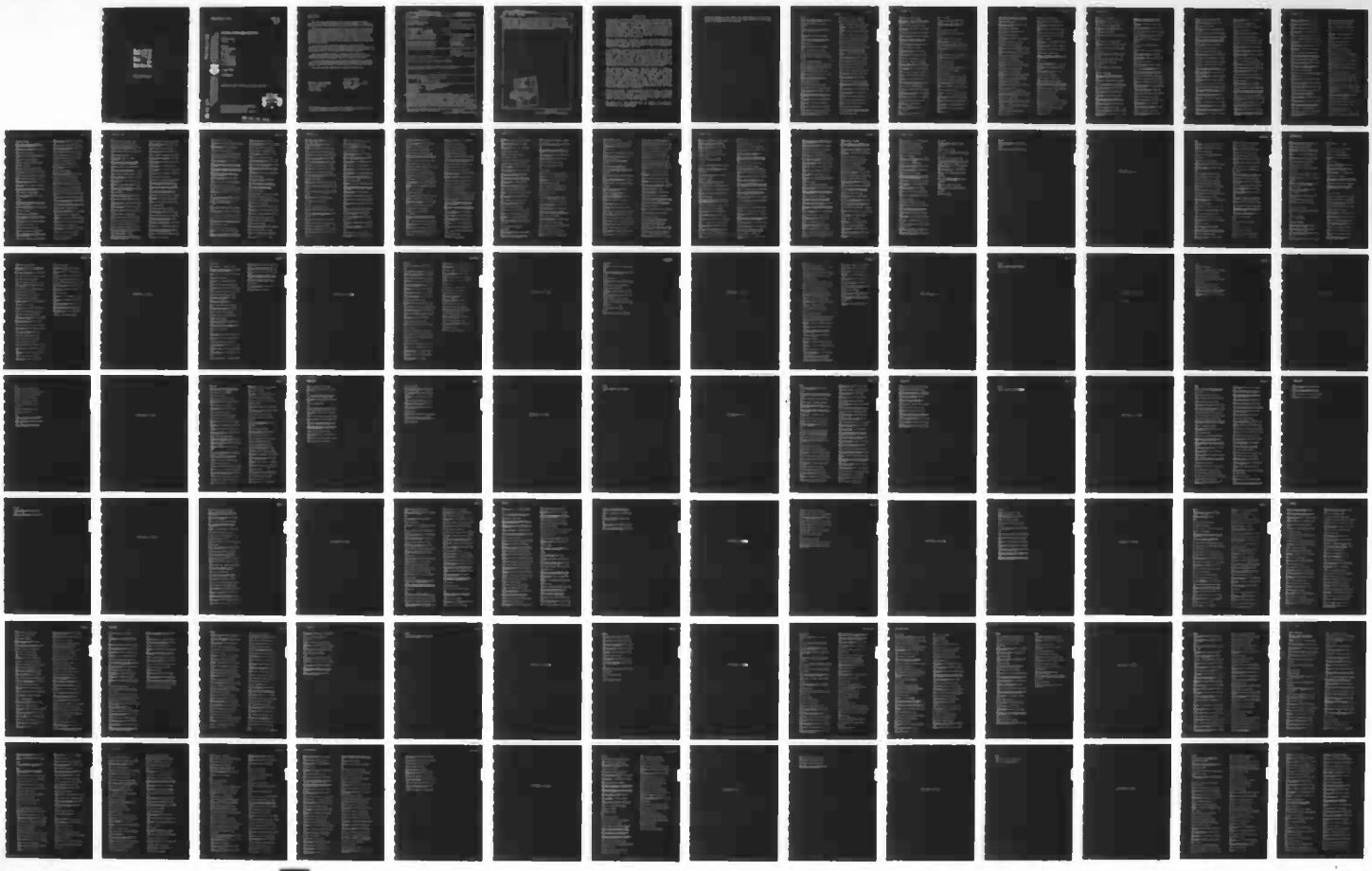

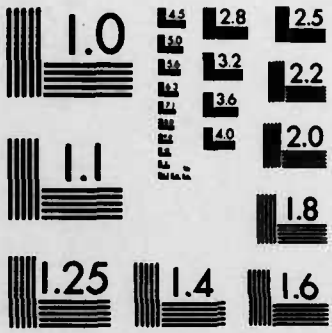

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Volume I of II
Indices

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August 1983

Final Report

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Air Force Systems Command
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This final report was prepared by the Air Force Weapons Laboratory, Kirtland Air Force Base, New Mexico, under Job Order 999300CA. Lieutenant Colonel Winston K. Pendleton (CA) was the Laboratory Project Officer-in-Charge.

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This report has been reviewed and is approved for publication.

FOR THE COMMANDER

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Pulsed power and high-voltage technologies are playing an ever increasing role in weapons' effects simulation, fusion power research, power distribution, materials processing and medical research. It is a rapidly expanding field of applied physics as evidenced by the growth in published literature. Three years ago, the Air Force Weapons Laboratory (AFWL) initiated a project to compile a computerized data base of pulsed power research papers. The data base is stored on our IBM System 2000. This AFWL Technical Report is the first release of the

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bibliography to date. It contains about 2,500 full bibliographic citations, original sources, availability, key words and abstract. There are three indices: Subject, Personal Author, and Corporate Author. There are 30 main subject headings, from Breakdown Studies to Switching. The indices are contained in Volume I. Volume II contains the citations. In addition to these entries, the data base contains about 7,500 additional titles. As these titles are added to the full bibliography, they will be published.

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INTRODUCTION

Pulsed power and high-voltage technologies are playing an every increasing role in weapons research, weapons' effects simulation, fusion power research, power distribution, materials processing, and medical research. The past few decades have seen a rapid expansion and maturing of these technologies. The evidence of this increased interest and importance is an attendant growth in published literature in the field. The fact that pulsed power is a young technology, however, means that no pulsed power journal presently exists and articles in the field are published in diverse technical journals. Much of the work is in report form and has not been widely disseminated.

The Air Force Weapons Laboratory is one of the lead Department of Defense laboratories in applied pulsed power and high-voltage technologies. For its own needs and to help the pulsed power community at large, AFWL began in 1980 to compile a comprehensive listing of literature in the field.

A bibliography is being compiled as a computerized data base on the IBM System 2000. This system allows ease of data manipulation and formated printing of indices. This AFWL Technical Report is the first release of the bibliography to date. It contains about 2,500 full bibliographic citations, original source, availability, key words, and abstracts. All documents referenced in this version are from open literature sources, primarily journal articles. In addition to these entries, we have stored an additional 7,500 titles. As the full entries are completed, we plan to publish updates about every 6 months.

The bibliography is organized into two volumes. Volume I contains three indices: Subject, Personal Author, and Corporate Author. There are about 30 main subject headings, each of which is broken down alphabetically into secondary subjects. Each author index is listed alphabetically. Every personal author on a given paper will have an entry in this index. Corporate authors are organized by the laboratory, company, or university from which the paper originated. Under each index heading, the assession number and title are given in numerical order. Assession numbers are assigned in random order by the computer. There are large gaps in the numbering system which will be filled in as the bibliography is completed.

Volume II contains the bibliographic citations and is organized by assession number. Entry into Volume II is through one of the three indicies in Volume I. The Volume II entries contain primary and secondary subject headings, title, authors, corporate authors, source, abstract, keywords and a copyright release for use of the abstract in this bibliography.

We hope that this bibliography is usable and valuable. Suggestions for improvements can be addressed to AFWL/CA, Kirtland AFB, New Mexico 87117.

A special thanks to the editors and contributors for their many hours of dedicated work and to Miss Sandra Bluehouse for helping prepare the manuscript for printing.

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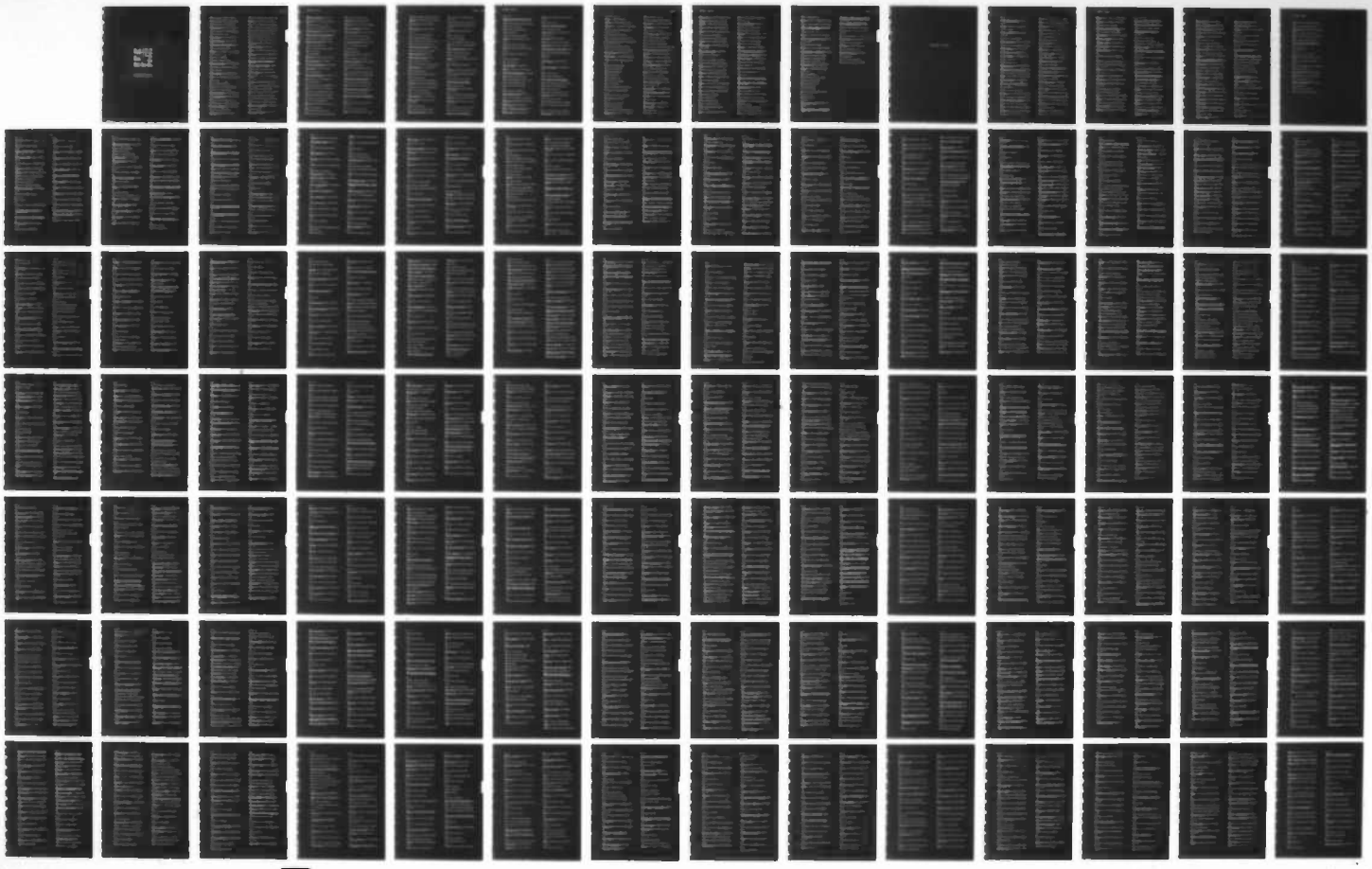

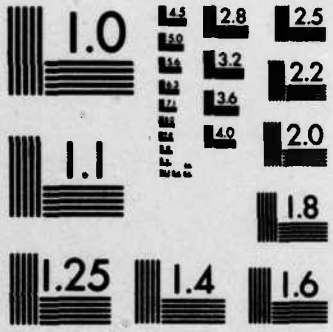

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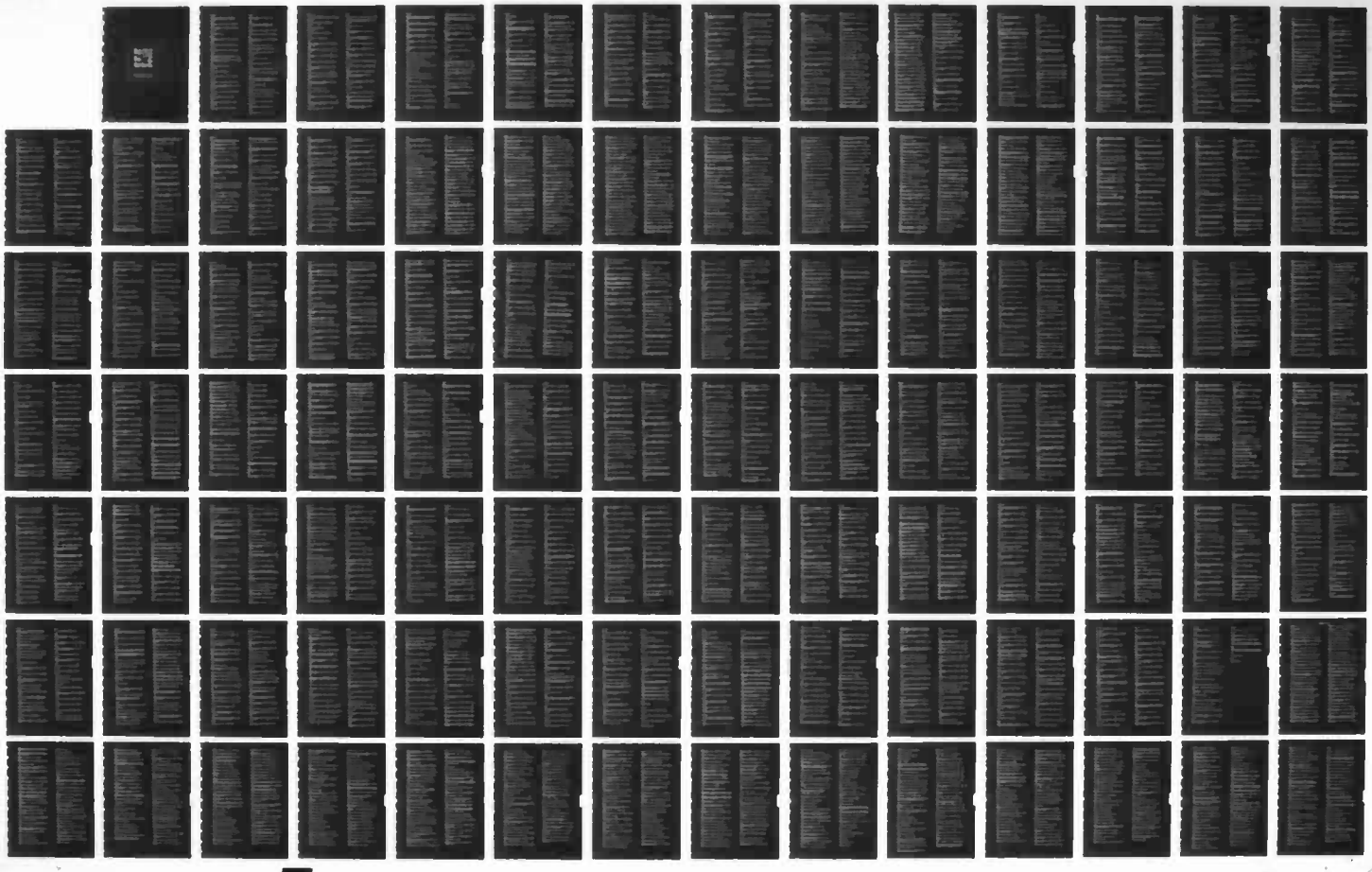

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CEGB, Burymead House, Guildford GU2 5BH, UK

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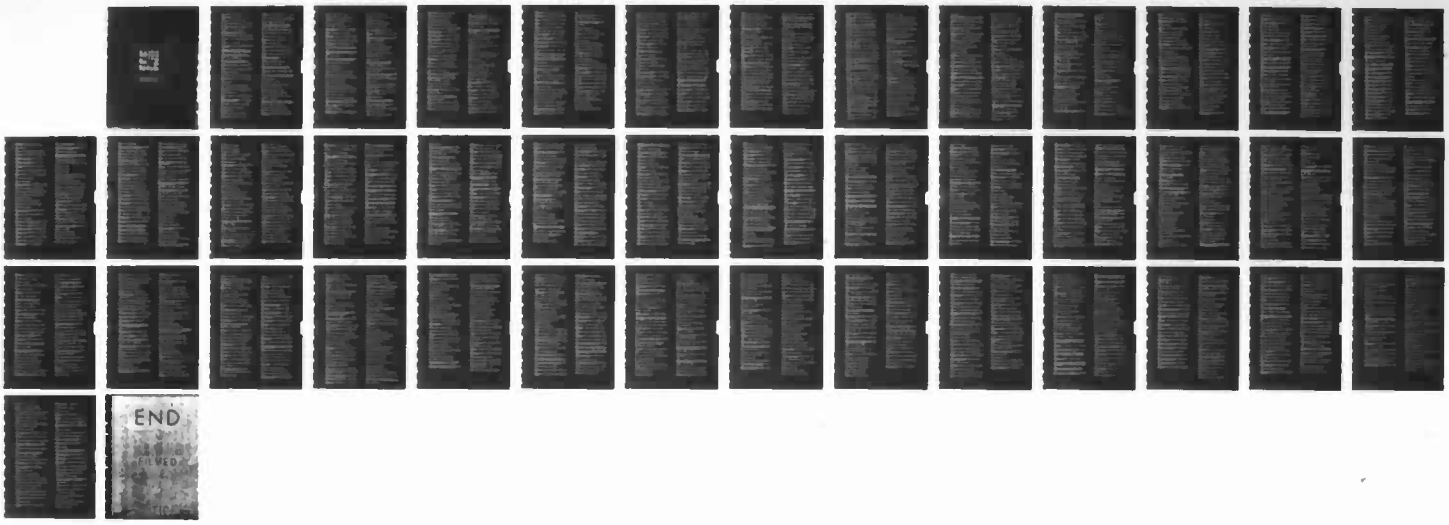

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