ABSTRACT

Three firms which offer online information retrieval are compared. The firms are Lockheed Information Service, System Development Corporation and the Western Research Application Center. Comparison tables provide information such as hours accessible, coverage, file update, search elements and cost figures for 15 data bases. In addition, general information is given on the firm and the search service including who to contact for information, membership requirements, equipment requirements, costs, special features and additional services. The data bases are Chemical Abstracts Condensates, Predicasts' Chemical Market Abstracts, Engineering Index, Inc., American Geological Institute, Institution of Electrical Engineers (London), National Aeronautics and Space Administration (NASA), National Technical Information Service: Government Reports Announcement (GRA), Macmillan's Current Index to Scientific and Technical Literature, American Petroleum Institute, National Agricultural Library, ISI Source and Citation Index, National Library of Medicine, Educational Resource Information Center, Abstracted Business Information and American Psychological Association. (JG)
A COMPARISON OF THREE ONLINE INFORMATION RETRIEVAL SERVICES

Harriet W. Zais

April 1974

AEC Contract No. W-7405-end-48
# A Comparison of Three Online Information Retrieval Services

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- Predicat's Chemical Market Abstracts  
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### Biological Sciences

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<td>----------</td>
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<td>-------------</td>
</tr>
<tr>
<td>C</td>
<td>GEO-REF</td>
<td>SDC</td>
</tr>
<tr>
<td>D</td>
<td>INSPEC</td>
<td>SDC, Lockheed</td>
</tr>
<tr>
<td>E</td>
<td>NTIS</td>
<td>SDC, Lockheed</td>
</tr>
<tr>
<td>F</td>
<td>PANDEX, TRANSDEX</td>
<td>Lockheed</td>
</tr>
<tr>
<td>G</td>
<td>CAIN</td>
<td>SDC, Lockheed</td>
</tr>
<tr>
<td>H</td>
<td>ERIC</td>
<td>SDC, Lockheed</td>
</tr>
<tr>
<td>I</td>
<td>INFORM</td>
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</tr>
<tr>
<td>J</td>
<td>PSYCH ABST</td>
<td>Lockheed</td>
</tr>
<tr>
<td>K</td>
<td>MEDLINE</td>
<td>SDC</td>
</tr>
<tr>
<td>L</td>
<td>APILIT, APIPAT</td>
<td>SDC</td>
</tr>
<tr>
<td>M</td>
<td>CMA</td>
<td>Lockheed</td>
</tr>
</tbody>
</table>
A COMPARISON OF THREE ONLINE INFORMATION RETRIEVAL SYSTEMS

INTRODUCTION

This report was created to provide a concise guide to the data bases offered by three firms for online information searching. These are Lockheed Information Service (using Lockheed's DIALOG system), System Development Corporation (using SDC's ORBIT II retrieval program), and Western Research Application Center (using WESRAC's DATA CON system). The comparison tables were designed originally to highlight data bases that we at Lawrence Berkeley Laboratory were interested in accessing. Enough interest has been shown in these, however, to convince us that there is a wider audience for this type of comparison.

The report is designed for those librarians, administrators, and managers who are considering becoming subscribers to such online search services to better serve their user community. It presupposes some familiarity with the terminology of computerized information services. The selection of these three firms is not intended to be an endorsement to the exclusion of others that may be suitable. Because the focus of this report is on the online search services offered, we have not included other services such as custom created batch process searches, and selective dissemination of information (SDI) services that the firms may offer.

Information on 15 data bases is presented in the tables. Table 1 presents general information on the nature of the firm and the search service itself, e.g., whom to contact for information, membership requirements if any, equipment requirements, costs, special features and additional services.

In Table 2 the data bases are grouped by broad subject areas as follows:

- The Physical Sciences
- The Biological Sciences
- The Social Sciences

Within each data base, the following information features are given:

- **Hours Accessible**: The hours that the data base is available for online searching.
- **Coverage**: The years of material that the file contains.
- **File Update**: How often the new material is added to the searchable file. Where available, some indication is given of the amount of material included in these updates. These elements give an indication of how large the data base is and how rapidly it is growing.
- **Search Elements**: The fields or categories that can be used to search the data base. Typical search elements include author (personal and/or corporate), subject terms, document title, and source reference. The number and kind of element vary with the data base and firm.
- **Cost**: The charges for the use of the data base. COMPUTER CONNECT is the dollar amount that the user will be charged for each hour (rounded up to the 1/100 of an hour) his terminal is connected online to the computer at the firm's facility. OFFLINE PRINTING is the amount charged per citation to have material printed at the computer facility and mailed to the user (usually within 24 hours).
A Brief Overview of Online Searching

In online or "interactive" searching, the user's terminal is connected by phone to the computer at the search service's facility. Each user has a unique user identification code that allows access to the system and is used in billing the subscriber for the amount of time he was connected to the system. Each firm has its own search language--usually simple English language statements and commands which the user keys into his terminal. He formulates his request by using Boolean logic (AND, OR, AND NOT) to connect terms of interest to him. He can then view some of the material thus retrieved and can have items that he wants printed, specifying the desired format.

The data bases these firms offer access to are files of bibliographic information in machine readable form. These bibliographic citations include such elements as personal author, corporate author, document title, journal citation, keyword phrases, language, patent number, and abstracts. Although all these elements may be present in the data base, the firms do not necessarily offer access to them all. Each firm, for each data base, has some subset of elements in each citation that users may search, display, and have printed offline.

ACKNOWLEDGEMENTS

My deep appreciation is extended to the firms referred to in this report for their wholehearted cooperation. My special thanks go to Ms. Judy Wanger of SDC, to Mr. Mark Radwin of Lockheed, and to Dr. Robert Mixer of WESRAC who patiently answered my innumerable questions. They reviewed the draft of this report. The author, however, acknowledging the difficulty in capturing data as liquid as the current status of information retrieval system, is responsible for all errors of commission and omission.

I would also like to thank the Publications Section of the LBL Technical Information Department for their advice and assistance in the publication of this report.
# Table 1. General service information.

<table>
<thead>
<tr>
<th>SYSTEM DEVELOPMENT CORPORATION</th>
<th>WESTERN RESEARCH APPLICATION CENTER</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For Information:</strong></td>
<td><strong>SDC Search Service</strong></td>
<td>Lockheed Information Systems</td>
</tr>
<tr>
<td></td>
<td>2500 Colorado Avenue</td>
<td>3275 Hanover Street</td>
</tr>
<tr>
<td></td>
<td>Santa Monica, CA 90406</td>
<td>Palo Alto, CA 94304</td>
</tr>
<tr>
<td></td>
<td>(213) 393-9411, Ext. 7277/7311</td>
<td>(415) 493-4411, Ext. 45034</td>
</tr>
<tr>
<td></td>
<td>SDC Search Service</td>
<td>or</td>
</tr>
<tr>
<td></td>
<td>5827 Columbia Pike</td>
<td>405 Lexington Avenue</td>
</tr>
<tr>
<td></td>
<td>Falls Church, VA 22041</td>
<td>New York, NY 10017</td>
</tr>
<tr>
<td></td>
<td>(703) 520-2220, Ext. 442</td>
<td>(212) 697-7171</td>
</tr>
<tr>
<td><strong>Membership Requirement</strong></td>
<td><strong>$100 minimum charge for the first month.</strong></td>
<td><strong>There are no minimums or membership charges of any kind.</strong></td>
</tr>
<tr>
<td><strong>Terminals Acceptable</strong></td>
<td><strong>Dial up:</strong> ASCII-, Correspondence-, EBCDIC-code terminals at 10, 15, or 30 cps. Popular terminals: Anderson-Jacobson, Computer Devices, Datapoint, Execuport, Hazeltine, IBM2741, NCR, Novar, Teletype, TermiNet, Texas Instruments. **</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Dial up:</strong> ASCII-2 coded, teletype compatible at 10 or 30 cps. **</td>
<td></td>
</tr>
<tr>
<td><strong>Equipment rental:</strong></td>
<td><strong>Will assist users, on request, to contact terminal suppliers.</strong></td>
<td><strong>Dial up:</strong> ASCII-, Correspondence-, EBCDIC-code terminals at 10, 15, or 30 cps. Popular terminals: Anderson-Jacobson, Computer Devices, Datapoint, Execuport, Hazeltine, IBM2741, NCR, Novar, Teletype, TermiNet, Texas Instruments. **</td>
</tr>
<tr>
<td><strong>Leased line:</strong> 480 cps (for high speed display terminals) **</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Equipment rental:</strong> Dial-up terminal costs $35 to $150/mo rental. High-speed display terminal with printer costs about $400/mo. Can be customer furnished. **</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Costs</strong></td>
<td><strong>Online Access Rates:</strong> (See specific data bases)</td>
<td><strong>Online Access Rates:</strong> (See specific data bases)</td>
</tr>
<tr>
<td></td>
<td><strong>Online Printing:</strong> (See specific data bases. The cost and content of a citation vary from base to base.)</td>
<td><strong>Offline Printing:</strong> (See specific data bases. The cost and content of a citation vary from base to base.)</td>
</tr>
<tr>
<td></td>
<td><strong>TYMSHARE (Optional): $10/hr plus telephone charges to the nearest TYMSHARE city (if required)</strong></td>
<td><strong>TYMSHARE: There are no TYMSHARE arrangements.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Overseas users pay actual postage costs and an additional $16/hr for the transatlantic TYMSHARE communications.</strong></td>
<td><strong>TYMSHARE (Optional): $10/hr plus telephone charges to the nearest TYMSHARE city (if required)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>In Europe: $15/hr plus telephone charges to nearest TYMSHARE city (if required)</strong></td>
<td><strong>In Europe: $15/hr plus telephone charges to nearest TYMSHARE city (if required)</strong></td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td><strong>Special Offer: up to 2 free hr of computer time during first 30 days of service for new users. Regular charge for communications and offline printing. $10 for each data-base manual; additional copies are $5 each.</strong></td>
<td><strong>Training credit is not given but instruction is available.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>A copy of the manual is provided free; additional copies at extra cost.</strong></td>
<td><strong>Training credit of 2 hr search service time will be allowed all customers. There are quarterly or consortia discounts.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Buy one copy of user manual: $10/copy--covers all data bases.</strong></td>
<td><strong>Buy one copy of user manual: $10/copy--covers all data bases.</strong></td>
</tr>
<tr>
<td><strong>Additional Services</strong></td>
<td><strong>SDI planned for mid-1974</strong></td>
<td><strong>SDI planned for early 1974</strong></td>
</tr>
<tr>
<td><strong>SDI</strong></td>
<td><strong>Beginning June 1974, SDC users will be able to place document orders online to SDI’s OATS</strong> (Original Article Tearsheets Service). **</td>
<td><strong>Complete customized retrospective and current awareness search service provided.</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Additional data bases are being added</strong></td>
<td><strong>Additional data bases are being added</strong></td>
</tr>
<tr>
<td><strong>Source of Material</strong></td>
<td>Ms. Judy Wanger, Ms. Martha Bonner</td>
<td>Mr. Mark Radwin, Ms. Frances Grant</td>
</tr>
</tbody>
</table>

Information current as of April 17, 1974.
<table>
<thead>
<tr>
<th></th>
<th>SDC CHEMCON and CHEM71</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Accessible</td>
<td>Effective April 24, 1974; CHEM71: M- F 8am-11am; CHEMCON: M-F 5am-8am; 8:10am-11am; 12:10pm-5pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>File Update</td>
<td>Biweekly (15,000 added monthly)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search Elements</td>
<td>16 categories; 13 directly searchable*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost</td>
<td>COMPUTER CONNECT TIME: $45/connect hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Features</td>
<td>Index with word frequencies available on either fiche or film (16 mm or 35 mm) to users for $25.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See Appendix A for list of searchable fields.

<table>
<thead>
<tr>
<th></th>
<th>WESRAC</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage</td>
<td>M, W, Th, F: 5am-4:30pm T: 4:30am-3:30pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>File Update</td>
<td>1972 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search Elements</td>
<td>Estimated 13 categories directly searchable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Features</td>
<td>COMPUTER CONNECT TIME: $45/connect hr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>OFFLINE PRINTING: $10/citation</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See Appendix A for list of searchable fields.

### PREDICASTS' CHEMICAL MARKET ABSTRACTS
The CMA tape provides digests of all literature significant to chemical products marketing. Coverage includes both domestic and foreign information on all chemical process industries.

<table>
<thead>
<tr>
<th></th>
<th>SDC CHEMCON and CHEM71</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Accessible</td>
<td>M, W, Th, F: 5am-4:30pm T: 4:30am-3:30pm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coverage</td>
<td>January 1972 -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search Elements</td>
<td>12 retrieval codes, Abstracts can be searched, displayed, and printed. *</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Features</td>
<td>Sorting of output by a variety of fields including nested sorts is offered. After 6 mos trial, user must subscribe to the CMA hard copy publication at $350 annual cost.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See Appendix M for list of searchable fields.
### ENGINEERING INDEX, INC.

Data base corresponds to the issues of The Engineering Index Monthly.

<table>
<thead>
<tr>
<th>SDC COMPENDEX</th>
<th>WESRAC</th>
<th>LOCKHEED COMPENDEX</th>
</tr>
</thead>
</table>
| **Hours** | M-F: 5 am-8 am; 2:10 pm-5 pm  
(Plus 11 am-2 pm Effective 4/29/74) | M, W, Th, F: 5 am-4:30 pm  
T: 4:30 am-3:30 pm | January 1972 - (intend to add '70-'71) |
| **Accessible** | | | |
| **Coverage** | January 1970 - | | 6000 records added monthly |
| **File Size** | 300,000 records (6000 added monthly) | | Monthly |
| **Search Elements** | 14 categories, 12 directly searchable | | 8 fields searchable: 4 of them full-text indexed |
| **Cost** | COMPUTER CONNECT: $90/hr  
OFFLINE PRINTING: 20¢/citation (including abstract) | COMPUTER CONNECT: $55/hr  
OFFLINE PRINTING: 10¢/citation (including abstract) |
| **Special Features** | | Abstracts displayable | |

1See Appendix B for list of searchable fields
2See Appendix B for list of searchable fields

---

### AMERICAN GEOLOGICAL INSTITUTE

Worldwide coverage of geosciences literature:
3000 journals plus conferences, symposia, and major monographs.

<table>
<thead>
<tr>
<th>SDC GEO-REF</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
</table>
| **Hours** | M-F: 8:10 am-11 am  
Effective 4/29/74 | | |
| **Accessible** | | | |
| **Coverage** | 1967 - | | |
| **File Update** | 3000 records added monthly | | |
| **Search Elements** | 13 categories, 8 directly searchable | | |
| **Cost** | COMPUTER CONNECT: $60/hr  
OFFLINE PRINTING: 15¢/citation | | |
| **Special Features** | Use of GEO-REF is limited to the user organization with whom SDC has a contract. Authorization for use of the file by service bureaus serving outsiders must be granted by AGI. | | |
| | | | |
| | | | |
| | | | |

4See Appendix C for list of searchable fields

---

### INSTITUTION OF ELECTRICAL ENGINEERS (LONDON)

Provides information from the corresponding issues of Physics Abstracts; Electrical and Electronics Abstracts; Computer and Control Abstracts.

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC</th>
<th>LOCKHEED INSPEC Files</th>
</tr>
</thead>
</table>
| **Hours** | M, W, Th, F: 5 am-4:30 pm  
T: 4:30 am-3:30 pm | | Data base has three sections: Physics; Electrical and Electronics Engineering; Computers and Control Engineering  
Abstracts are displayable. |
| **Accessible** | | | |
| **Coverage** | 1970 - | | |
| **File Update** | Monthly (150,000 records added yearly) | | |
| **Search Elements** | 15 searchable fields: 3 are full-text indexed | | |
| **Cost** | COMPUTER CONNECT TIME: $35/connec/hr  
OFFLINE PRINTING: 10¢/citation (including abstract) | | |
| **Special Features** | | | |

5See Appendix D for list of searchable fields.

---
**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)**

Provides information from the corresponding issues of International Aerospace Abstracts (IAA) and Scientific and Technical Aerospace Reports (STAR).

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC NASA</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours Accessible</strong></td>
<td>W, F: 9 am-12:45 pm</td>
<td></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>January 1971 -</td>
<td></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>Quarterly (approx. 60,000 new citations added yearly)</td>
<td></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>1 search element; keywords</td>
<td></td>
</tr>
</tbody>
</table>
| **Cost** | COMPUTER CONNECT TIME: $25/connect hr  
OFFLINE PRINTING: 60/citation | |

**NASA-MINI**

NASA-MINI is a compilation of NASA S and T files covering structural analysis.

<table>
<thead>
<tr>
<th>Hours Accessible</th>
<th>M: 9 am-12:45 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coverage</strong></td>
<td>1962</td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>Semi-annually</td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>1 searchable element; keywords</td>
</tr>
</tbody>
</table>
| **Cost**         | COMPUTER CONNECT TIME: $25/connect hr  
OFFLINE PRINTING: 60/citation | |
| **Special Features** | Keyword postings of the NASA file available in printout form for $50. | |

**NATIONAL TECHNICAL INFORMATION SERVICE: GOVERNMENT REPORTS ANNOUNCEMENT (GRA)**

Abstracts of government research from over 240 agencies: AEC, HEW, HUD, DOT, Commerce, DOD, etc.

<table>
<thead>
<tr>
<th>SDC NTIS</th>
<th>WESRAC GRA</th>
<th>LOCKHEED NTIS</th>
</tr>
</thead>
</table>
| **Hours Accessible** | M-F: 8:45 am-4:15 pm  
T, Th: 9 am-12:45 pm | M, W, Th, F: 9 am-4:30 pm,  
T: 4:30 am-3:30 pm |
| **Coverage** | January 1971 - | 1964 - |
| **File Update** | 5000 new citations added monthly | Semi-monthly (56,000 citations included each year) |
| **Search Elements** | 12 searchable elements‡ | 1 searchable field: keywords  
10 searchable fields; 4 are full-text indexed§ |
| **Cost** | COMPUTER CONNECT TIME: $45/connect hr  
OFFLINE PRINTING: 106/citations (includes abstract) | COMPUTER CONNECT TIME: $35/connect hr  
OFFLINE PRINTING: 60/citation  
Abstracts are displayable |
| **Special Features** | Keyword index on fiche and film is planned  
Abstracts displayable | Keyword postings available in printout form for $50.  
Abstracts not displayable  
Abstracts are displayable |

‡See Appendix E for list of searchable fields  
§See Appendix E for list of searchable fields  
*This firm offers the complete file; this file began in 1964.*

-6-
**MACMILLAN'S CURRENT INDEX TO SCIENTIFIC AND TECHNICAL LITERATURE**

Bibliographic citations from 400 of the world's leading scientific, technical, and medical journals

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PANDEX</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bibliographic citations from 2400 of the world's leading scientific, technical, and medical journals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SDC</strong></td>
<td><strong>WESRAC</strong></td>
<td><strong>LOCKHEED</strong></td>
</tr>
<tr>
<td><strong>PANDEX/TRANSDEX</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Accessible</strong></td>
<td><strong>M, W, Th, F: 5am-4:30 pm</strong></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td><strong>T: 4:30 am-3:30 pm</strong></td>
<td><strong>January 1970 to December 1972</strong></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td><strong>Irregular intervals (240,000 citations added each year)</strong></td>
<td><strong>Next update will be May 1974: all 1973 and 5 months of 1974 will be added. The file will be 909,000 citations at completion of this update.</strong></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td></td>
<td><strong>8 searchable fields: 3 are full-text indexed</strong></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td></td>
<td><strong>(Same as PANDEX)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>COMPUTER CONNECT: $35/hr</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>OFFLINE PRINTING: 5¢/citation</strong></td>
</tr>
</tbody>
</table>

**TRANSDMEX**

Document translations from the US Joint Publications Research Service covering articles from communist and developing countries. JPRS translations are available on film or microfiche.

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APILIT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AMERICAN PETROLEUM INSTITUTE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Index to API Abstracts of Refining Literature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SDC</strong></td>
<td><strong>WESRAC</strong></td>
<td><strong>LOCKHEED</strong></td>
</tr>
<tr>
<td><strong>APILIT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Accessible</strong></td>
<td><strong>M-F: 5am-8am; 2:10 pm-5 pm</strong></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td><strong>(Effective 4/29/74)</strong></td>
<td><strong>1964 -</strong></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td><strong>1500 records added monthly</strong></td>
<td><strong>11 categories, 6 directly searchable</strong></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td></td>
<td><strong>Currently available only by special arrangement with the American Petroleum Institute.</strong></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td></td>
<td><strong>(See Appendix L for list of searchable files.)</strong></td>
</tr>
</tbody>
</table>

**Index to API Abstracts of Refining Patents**

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APIPAT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AMERICAN PETROLEUM INSTITUTE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Index to API Abstracts of Refining Patents</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SDC</strong></td>
<td><strong>WESRAC</strong></td>
<td><strong>LOCKHEED</strong></td>
</tr>
<tr>
<td><strong>APIPAT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Accessible</strong></td>
<td><strong>M-F: 2:10 pm-5 pm</strong></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td><strong>(Effective 4/29/74)</strong></td>
<td><strong>1964 -</strong></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td><strong>670 records added monthly</strong></td>
<td><strong>11 categories, 6 directly searchable</strong></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td></td>
<td><strong>Currently available only by special arrangement with the American Petroleum Institute.</strong></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td></td>
<td><strong>(See Appendix L for list of searchable files.)</strong></td>
</tr>
</tbody>
</table>
NATIONAL AGRICULTURAL LIBRARY
CAIN is a Cataloging and Indexing database that provides worldwide coverage of journal and monographic literature in agriculture.

<table>
<thead>
<tr>
<th>SDC</th>
<th>CAIN</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours</strong></td>
<td>M-F: 11:10 am-2 pm</td>
<td>M-W-Th-F: 5 am-4:33 pm</td>
<td>M-W-Th-F: 5 am-4:33 pm</td>
</tr>
<tr>
<td><strong>Accessible</strong></td>
<td>(Effective 4/29/74)</td>
<td>T: 4:30 am-3:30 pm</td>
<td>T: 4:30 am-3:30 pm</td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>1970 -</td>
<td>1970 -</td>
<td>1970 -</td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>12,000 records added monthly</td>
<td>Monthly (120,000 records added yearly)</td>
<td>Monthly (120,000 records added yearly)</td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>16 categories, 13 directly searchable</td>
<td>15 retrieval codes: 3 full-text indexed fields</td>
<td>15 retrieval codes: 3 full-text indexed fields</td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>COMPUTER CONNECT: $10/hr</td>
<td>OFFLINE PRINTING: $6/citation</td>
<td>OFFLINE PRINTING: $6/citation</td>
</tr>
<tr>
<td><strong>Scope</strong></td>
<td></td>
<td></td>
<td>The NAL's Food and Nutrition file has been merged with the CAIN file.</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td></td>
<td></td>
<td>Sorting of output by a variety of fields, including nested sorts, are available both online and offline.</td>
</tr>
</tbody>
</table>

See Appendix G for list of searchable fields.

ISI SOURCE AND CITATION INDEX
(The Life Sciences and Clinical Practices File)
Includes articles published in over 1000 life science journals. Provides information from the corresponding issues of ISI's Current Contents - Life Sciences and Current Contents - Clinical Practices.

<table>
<thead>
<tr>
<th>SDC</th>
<th>SCISEARCH</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours</strong></td>
<td>M-F: 11:10 am-2 pm</td>
<td>M-W-Th-F: 5 am-4:33 pm</td>
<td>Scheduled for June 1974</td>
</tr>
<tr>
<td><strong>Accessible</strong></td>
<td>(June 1974)</td>
<td>T: 4:30 am-3:30 pm</td>
<td></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>April 1972</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>400,000 citations when the file comes up; 10,000 new citations added monthly</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>5 elements directly searchable: Source Author, Cited Author, Cited Reference, Corporate Author, Title Terms</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>COMPUTER CONNECT TIME: $90/connector hr</td>
<td>OFFLINE PRINTING: $25/citation</td>
<td></td>
</tr>
</tbody>
</table>

See Appendix G for list of searchable fields.

NATIONAL LIBRARY OF MEDICINE
The MEDLINE (MEDLARS ONLINE) database is a special subset of the MEDLARS file and covers over 1,100 biomedical journals.

<table>
<thead>
<tr>
<th>SDC</th>
<th>MEDLINE</th>
<th>WESRAC</th>
<th>LOCKHEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours</strong></td>
<td>M-F: 11:10 am-2 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Accessible</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>1970 -</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>12,000 records added monthly</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>11 categories, 7 directly searchable</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>Service is currently available only by special arrangement with the Pharmaceutical Manufacturers Assoc.</td>
<td></td>
<td></td>
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</table>

See Appendix K for list of searchable fields.
<table>
<thead>
<tr>
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<th>SDC</th>
<th>ERIC</th>
<th>WESRAC</th>
<th>ERIC</th>
<th>LOCKHEED</th>
<th>ERIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours Accessible</strong></td>
<td>M-F: 9am-5pm</td>
<td>11am-5pm</td>
<td>M-F: 1pm-5pm</td>
<td>M-W, Th, F: 9am-4:30pm</td>
<td>T: 4:30pm</td>
<td>1:30pm</td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>1966</td>
<td>1966</td>
<td>1966</td>
<td>1966</td>
<td>1966</td>
<td></td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>2500 records added monthly</td>
<td>Quarterly</td>
<td>Monthly</td>
<td>Quarterly</td>
<td>Monthly</td>
<td></td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>19 categories, 10 directly searchable</td>
<td>2 prefix codes, 2 suffix codes</td>
<td>2 prefix codes, 2 suffix codes</td>
<td>2 prefix codes, 2 suffix codes</td>
<td>2 prefix codes, 2 suffix codes</td>
<td></td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>COMPUTER CONNECT: $25/hr</td>
<td>OFFLINE PRINTING: $10/citation (includes abstract)</td>
<td>COMPUTER CONNECT: $25/hr</td>
<td>OFFLINE PRINTING: $10/citation (includes abstract)</td>
<td>COMPUTER CONNECT: $25/hr</td>
<td></td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td></td>
</tr>
</tbody>
</table>

**ABSTRACTED BUSINESS INFORMATION**

<table>
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<th>ERIC</th>
<th>LOCKHEED</th>
<th>ERIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours Accessible</strong></td>
<td>M-F: 9am-5pm</td>
<td>11am-5pm</td>
<td>M-F: 1pm-5pm</td>
<td>M-W, Th, F: 9am-4:30pm</td>
<td>T: 4:30pm</td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>August 1971</td>
<td>1966</td>
<td>1966</td>
<td>1966</td>
<td>1966</td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>Monthly (900 citations added/mo)</td>
<td>24,000 records added/monthly</td>
<td>24,000 records added/monthly</td>
<td>24,000 records added/monthly</td>
<td>24,000 records added/monthly</td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>8 categories, 5 directly searchable</td>
<td>13 searchable fields, 5 are full-text indexed</td>
<td>13 searchable fields, 5 are full-text indexed</td>
<td>13 searchable fields, 5 are full-text indexed</td>
<td>13 searchable fields, 5 are full-text indexed</td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>COMPUTER CONNECT: $45/hr</td>
<td>OFFLINE PRINTING: $10/citation (includes abstract)</td>
<td>COMPUTER CONNECT: $45/hr</td>
<td>OFFLINE PRINTING: $10/citation (includes abstract)</td>
<td>COMPUTER CONNECT: $45/hr</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
<td>Abstracts displayable</td>
</tr>
</tbody>
</table>

**AMERICAN PSYCHOLOGICAL ASSOCIATION**

Non-evaluative summaries of the world's journal literature in psychology and related disciplines

<table>
<thead>
<tr>
<th>SDC</th>
<th>WESRAC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours Accessible</strong></td>
<td>SDC does not plan to add this database</td>
</tr>
<tr>
<td><strong>Coverage</strong></td>
<td>January 1987</td>
</tr>
<tr>
<td><strong>File Update</strong></td>
<td>Monthly (24,000 records added yearly)</td>
</tr>
<tr>
<td><strong>Search Elements</strong></td>
<td>13 searchable fields, 5 are full-text indexed</td>
</tr>
<tr>
<td><strong>Cost</strong></td>
<td>COMPUTER CONNECT: $50/hr</td>
</tr>
<tr>
<td><strong>Special Features</strong></td>
<td>Customers may not duplicate or sell copies of printouts without prior agreement of the Am. Psych. Assc.</td>
</tr>
</tbody>
</table>

---

1. See Appendix H for list of searchable fields.
2. See Appendix I for list of searchable fields.
3. These firms offer the complete file; these files began in 1966.
APPENDIX A

Records in the SDC/CHEMCON file contain up to 30 different categories of bibliographic information. Thirteen of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories can be searched on subsets of the file through special ORBIT text-searching features. All information in a citation can be requested by the user through various "print" commands.

<table>
<thead>
<tr>
<th>Title</th>
<th>Parent Journal Citation</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Keyword Phrase</td>
<td>Book Review Citation</td>
</tr>
<tr>
<td>*CA Publication Section</td>
<td>Meeting Date</td>
</tr>
<tr>
<td>*Coden</td>
<td>Availability</td>
</tr>
<tr>
<td>Foreign Title (Book)</td>
<td>Work Address</td>
</tr>
<tr>
<td>*Author (Personal)</td>
<td>*Work Location</td>
</tr>
<tr>
<td>*Author (Corporate)</td>
<td>*Language</td>
</tr>
<tr>
<td>Source Reference</td>
<td>*Patent Number</td>
</tr>
<tr>
<td>*Publication Date</td>
<td>Patent Assignees</td>
</tr>
<tr>
<td>Publication Class</td>
<td>*Patent Classification</td>
</tr>
<tr>
<td>Publisher Identity</td>
<td>Patent Date</td>
</tr>
<tr>
<td>CA Publication Citation</td>
<td>Patent Priority Number</td>
</tr>
<tr>
<td>CA Cross References</td>
<td>*Patent Location</td>
</tr>
<tr>
<td>CA Service Coverage</td>
<td>*Patent (Publication Class)</td>
</tr>
<tr>
<td>Copy Abstract Citation</td>
<td>*Update Code</td>
</tr>
</tbody>
</table>

At the user's option, searches may be restricted to the most recently entered segment of the file to provide for easy-to-use online current awareness searching.

January 1, 1974
APPENDIX B

SDC COMPENDEX

Records in the SDC/COMPENDEX file contain up to 14 different categories of bibliographic information. Twelve of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories can be searched on subsets of the file through special ORBIT text-searching features. All information in a citation can be requested by the user through various "print" commands.

*Title
*Author
*Author Affiliation
Source
*Index Terms
*Subject Headings
*Cross References
*Free-Language Terms
*Accession Number
Abstract
*Entry Date
*Card Alert Codes
*Journal Coden
*Update Code

The searchable Index Term category includes Subject Headings (and subheadings), Cross References, Free-Language Terms, and Title Terms. At the user's option, searches may be restricted to the most recently entered segment of the file, to provide for easy-to-use online current awareness searching.

January 1, 1974
COMPENDEX RETRIEVAL CODES

Table 1 Prefix Codes

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Used With Following Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>Author</td>
<td>AU=Pauling L</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CA</td>
<td>Card Alert</td>
<td>CA=402</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CO</td>
<td>Coden</td>
<td>CO=AACOBL</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>JA</td>
<td>Journal Announcement (source)</td>
<td>JA=AM CHEM SOC</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

Table 2 Suffix Codes

<table>
<thead>
<tr>
<th>Suffix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Used With Following Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>/DE</td>
<td>Descriptor (1)</td>
<td>Absorption/DE</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td></td>
<td>(full text indexed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/ID</td>
<td>Identifier (2)</td>
<td>Energy/ID</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td></td>
<td>(full text indexed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/TI</td>
<td>Title</td>
<td>Gasification/TI</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td></td>
<td>(full text indexed)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>/CS</td>
<td>Author Affiliation</td>
<td>Univ(F)Calif(F)Berkeley/CS</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td></td>
<td>(full text indexed)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Subject Headings (and Subheadings) and Cross References are included in both original bound multiple word phrase form and also reindexed to permit retrieval by constituent words or subphrases.

(2) Free-Language Terms are included in both original bound multiple word phrase form and also reindexed to permit retrieval by constituent words or subphrases.
APPENDIX C

Records in the SDC/GEO-REF file contain up to 13 different categories of bibliographic information. Eight of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories can be searched on subsets of the file through special ORBIT text-searching features. All information in a citation can be requested by the user through various "print" commands.

<table>
<thead>
<tr>
<th>Title</th>
<th>*Identification Number</th>
<th>*Journal Coden</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Title</td>
<td>Title Annotation</td>
<td>*Category Code</td>
</tr>
<tr>
<td>*Author</td>
<td>*Descriptors</td>
<td>*Publication Year</td>
</tr>
<tr>
<td>Symposium Information</td>
<td>*Language</td>
<td>*Update Code</td>
</tr>
</tbody>
</table>
APPENDIX D

INSPEC
RETRIEVAL CODES

Table 1 Prefix Codes

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Used with Following Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>Author (includes author, editor, translator)</td>
<td>AU-Jones, M. L.</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CN</td>
<td>Contract</td>
<td>CN-AF-AFOSR-1367-68</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CO</td>
<td>Coden</td>
<td>CO-AACOBL</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>JN</td>
<td>Title of Cover-to-Cover Journal Original Journal</td>
<td>JN-Materials Res. Stand. (USA)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>LA</td>
<td>Language</td>
<td>LA-Bulgarian</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>PA</td>
<td>Patent Assignees</td>
<td>PA A.B. DICK, CO.</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>PN</td>
<td>Patent Number</td>
<td>PN-8489850</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>PO</td>
<td>Country of original patent application</td>
<td>PO-Australia</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>PI</td>
<td>Country of patent</td>
<td>PI-USA</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>SC</td>
<td>Section Classification Codes</td>
<td>SC-C9980</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>TI</td>
<td>First 40 characters of title</td>
<td>TI-Matching The Work of the Control Comput</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

Table 2 Suffix Codes

<table>
<thead>
<tr>
<th>Suffix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Used with Following Commands</th>
</tr>
</thead>
<tbody>
<tr>
<td>/DE</td>
<td>Descriptor (full text indexed)</td>
<td>Computer Aided/DE</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>/ID</td>
<td>Identifier (full text indexed)</td>
<td>Computer Aided/ID</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>/CS</td>
<td>Corporate Source includes author affiliation, editor affiliation, original issuing or sponsoring organization (conference)</td>
<td>Lockheed/CS</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

*The identifier field consists not only of identifiers but salient words extracted from the title and abstract fields.

D-1
<table>
<thead>
<tr>
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<th>ABBREVIATIONS</th>
<th>DIRECTLY SEARCHABLE CATEGORIES</th>
<th>PRINTABLE CATEGORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accession Number</td>
<td>AN</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Title</td>
<td>TI</td>
<td>X*</td>
<td>X</td>
</tr>
<tr>
<td>Title Annotation</td>
<td>TA</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Title Note</td>
<td>TN</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Authors (Personal)</td>
<td>AU</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Corporate Source</td>
<td>CS</td>
<td>X*</td>
<td>X</td>
</tr>
<tr>
<td>Pagination/Date</td>
<td>PD</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Publication Year</td>
<td>PY</td>
<td>Date Ranging</td>
<td>-</td>
</tr>
<tr>
<td>NTIS Prices</td>
<td>PR</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Availability</td>
<td>AV</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Category Codes</td>
<td>CC</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Index Terms</td>
<td>IT</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>Descriptors</td>
<td>DE</td>
<td>X*</td>
<td>X</td>
</tr>
<tr>
<td>Identifiers</td>
<td>ID</td>
<td>X*</td>
<td>X</td>
</tr>
<tr>
<td>Notes</td>
<td>NO</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Announcement Publication</td>
<td>AP</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sponsoring Agency Acronym/Number</td>
<td>SA</td>
<td>X**</td>
<td>X</td>
</tr>
<tr>
<td>Numbers</td>
<td>NU</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>Report Numbers</td>
<td>RN</td>
<td>X***</td>
<td>X</td>
</tr>
<tr>
<td>Contract/Grant Numbers</td>
<td>CG</td>
<td>X***</td>
<td>X</td>
</tr>
<tr>
<td>Project Numbers</td>
<td>PN</td>
<td>X***</td>
<td>X</td>
</tr>
<tr>
<td>Task Numbers</td>
<td>TS</td>
<td>X***</td>
<td>X</td>
</tr>
<tr>
<td>Abstract</td>
<td>AB</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Update Code</td>
<td>UP</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>

*Single terms are searchable in the Index Term category.

**Only the Acronym part is searchable.

***All are searchable in the Numbers category.
APPENDIX E, Continued

Table 1 PREFIX CODES

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Commands Used With:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU</td>
<td>Author</td>
<td>AU-ABAGYAN, L. P.</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CC</td>
<td>Corporate Source Code</td>
<td>CC 002450</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CF</td>
<td>COSATI Field(2) (or WGTA and GHTA Nos.)</td>
<td>CF 05010</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CN</td>
<td>Contract Number</td>
<td>CN-AM-AFOSR-0100-67</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>RN</td>
<td>Report Number</td>
<td>RN-AD-197703</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>JA</td>
<td>Journal Announcement</td>
<td>JA-07218 (for NTIS)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JA-S0924 (for NASA)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>JA-N2309 (for AEC)</td>
<td></td>
</tr>
</tbody>
</table>

Table 2 SUFFIX CODES (FULL-TEXT INDEXED)

<table>
<thead>
<tr>
<th>Suffix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Commands Used With:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TI</td>
<td>Title (Full Text)</td>
<td>ALUMINUM/TI</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>DE</td>
<td>Descriptor</td>
<td>ALUMINUM ALLOYS/DE(3)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>DE*</td>
<td>Descriptor (primary term)</td>
<td>ALUMINUM ALLOYS/DE*</td>
<td>SELECT ONLY</td>
</tr>
<tr>
<td>ID</td>
<td>Identifier</td>
<td>ALUMINUM BRONZES/ID</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>ID*</td>
<td>Identifier (primary term)</td>
<td>ALUMINUM BRONZES/ID*</td>
<td>SELECT ONLY</td>
</tr>
<tr>
<td>CS</td>
<td>Corporate Source (Full Text)</td>
<td>LOCKHEED/CS</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

- In these fields a generic entry has been created, e.g., CF=05...includes categories.
- It is customary for library indexers to use single-term descriptors/identifiers and descriptor/identifier phrases. Consequently in DIALOG, when searching the descriptor and identifier fields, retrieval is possible by keying in acceptable bound phrases (i.e., ALUMINUM ALLOYS/DE or ALUMINUM ALLOYS/ID). But it also should be noted that bound phrases cannot be used when searching the title field in the same manner exemplified above. If a searcher wishes to use a phrase for title retrieval, he must qualify it with a full-text specification (ALUMINUM NV ALLOYS/TI).

SELECT ALUMINUM ALLOYS without specification will default to the descriptor and identifier fields only, not to all occurrences of the two terms. SELECT ALUMINUM, however, will default to all occurrences of the single-term, irrespective of field.

Note that both description and identifier fields have also been reindexed by full-text method so that individual words and subject phrases are searchable.
## RETRIEVAL CODES FOR PANDEX

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Name</th>
<th>Example</th>
<th>Commands Used With</th>
</tr>
</thead>
<tbody>
<tr>
<td>(none)</td>
<td>Key word in title of article</td>
<td>See note below</td>
<td></td>
</tr>
<tr>
<td>AU=</td>
<td>Author(s)</td>
<td>AU=SMITH RA (for R. A. Smith)*</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CO=</td>
<td>Coden – abbreviation for journal titles and publishers. See separate list.</td>
<td>CO=ELEE</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>GC=</td>
<td>Group Code – principal subject divisions of the Pandex published index. See separate list.</td>
<td>GC=45000 (for experimental medicine)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>JO=</td>
<td>Journal Name</td>
<td>JO=ELECTRICAL ENGINEER</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>YR=</td>
<td>Year of journal publication</td>
<td>YR=71</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

*Entry format for authors differs according to data base. PANDEX format is: JONES ML*
### RETRIEVAL CODES FOR TRANSDEX

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Name</th>
<th>Command Used With</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU=</td>
<td>Authors (AU=JONES ML)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>JO=</td>
<td>Journal Name (also other media names, e.g. newspapers, radio stations, etc.)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>TP=</td>
<td>Document Type (TP=2 is Social Science, TP=1 is scientific technical)</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CD=</td>
<td>Country Described</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CS=</td>
<td>Country Source of the information (only used if not the same as the Country Described)</td>
<td>EXPAND, SELECT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Suffix Code</th>
<th>Name</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>/TI</td>
<td>Title (full-text)</td>
<td>SELECT</td>
</tr>
<tr>
<td>/ID</td>
<td>Ad-Hoc or Serial Title (full text)</td>
<td>SELECT</td>
</tr>
<tr>
<td>/DE</td>
<td>Descriptors (Both bound and full-text indexed)</td>
<td>SELECT</td>
</tr>
</tbody>
</table>
APPENDIX G

Records in the SDC/CAIN file contain up to 16 different categories of bibliographic information. Thirteen of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories can be searched on subsets of the file using special ORBIT text-searching features. All information in a given citation can be requested by the user through various "print" commands.

<table>
<thead>
<tr>
<th>*NAL Call Number</th>
<th>*Publication Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Document Title</td>
<td>*Document Type</td>
</tr>
<tr>
<td>*Author (Personal)</td>
<td>*Source Code</td>
</tr>
<tr>
<td>*Author (Corporate)</td>
<td>*ID Number</td>
</tr>
<tr>
<td>*Primary Category Code</td>
<td>*Translation</td>
</tr>
<tr>
<td>*Secondary Category Code</td>
<td>*Language</td>
</tr>
<tr>
<td>*Subject Terms</td>
<td>Notes</td>
</tr>
<tr>
<td>Source Reference</td>
<td>Series Statement</td>
</tr>
</tbody>
</table>

At the user's option, searches may be restricted to the most recently entered segment of the file, to provide for easy-to-use online current awareness searching.

January 1, 1974
A. FULL TEXT LIMITORS

<table>
<thead>
<tr>
<th>ID</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>/DE</td>
<td>Subject Terms</td>
<td>Col. 10</td>
</tr>
<tr>
<td>/CS</td>
<td>Corporate Source (S)</td>
<td>Col. Y</td>
</tr>
<tr>
<td>/TI</td>
<td>Title (S)</td>
<td>Entry 2</td>
</tr>
</tbody>
</table>

B. FORMATTED FIELD CODES

<table>
<thead>
<tr>
<th>ID</th>
<th>DESCRIPTION</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU=</td>
<td>Author (S)</td>
<td>Entry 3</td>
</tr>
<tr>
<td>CC=</td>
<td>Category Codes (S)(Primary &amp; Secondary)</td>
<td>Col. 12-17, 62-67</td>
</tr>
<tr>
<td>NO=</td>
<td>NAL Call Number (C) (S)</td>
<td>Entry 9</td>
</tr>
<tr>
<td>DT=</td>
<td>Document Type</td>
<td>Col. 157, 171, 172, 21</td>
</tr>
<tr>
<td>JN=</td>
<td>Journal Name</td>
<td>Entry 6</td>
</tr>
<tr>
<td>LA=</td>
<td>Languages</td>
<td>Col. 22-24</td>
</tr>
<tr>
<td>SC=</td>
<td>Source Code</td>
<td>Col. 173</td>
</tr>
<tr>
<td>SD=</td>
<td>Search Date (Yr, Mo, Day)</td>
<td>Col. 30-37</td>
</tr>
<tr>
<td>SM=</td>
<td>Search Month (Yr, Mo)</td>
<td>Col. 30-35</td>
</tr>
<tr>
<td>SY=</td>
<td>Search Year (Yr)</td>
<td>Col. 30-33</td>
</tr>
<tr>
<td>RN=</td>
<td>YY-9NNNNNN</td>
<td>Col. 1</td>
</tr>
</tbody>
</table>

C. SOURCE CODES (SC)

| SC=USDA | SC=EXT | SC=TRANSL |
| SC=EXP STN | SC=FAO | |

D. DOCUMENT TYPES (DT=)

| DT=ARTICLE | DT=SERIAL | DT=REVIEW |
| DT=MENOGRAF | DT=BIBLIOGRAPHY | |
| (S) Field may be sorted | (To be used with PRINT Command only) |
| (C) Cascaded Indexing | |

G-2
APPENDIX H

Records in the SDC/ERIC file contain up to 19 different categories of bibliographic information. Ten of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories are searchable on subsets of the file through special ORBIT text-searching features. All information in the other categories can be requested by the user through various "print" commands.

<table>
<thead>
<tr>
<th>*ERIC Accession Number</th>
<th>*Institute Name</th>
<th>Source Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Clearinghouse Code</td>
<td>*Sponsoring Agency Name</td>
<td>Descriptive Note</td>
</tr>
<tr>
<td>Clearinghouse Accession Number</td>
<td>EDRS Price</td>
<td>*Descriptors</td>
</tr>
<tr>
<td>*Author</td>
<td>Contract/Grant Number</td>
<td>*Identifiers</td>
</tr>
<tr>
<td>Title</td>
<td>Bureau Number</td>
<td>Abstracts</td>
</tr>
<tr>
<td>*Publication</td>
<td>Availability</td>
<td>*Update Code</td>
</tr>
</tbody>
</table>

Users may restrict searches to either the report (RIE) or the journal (CIJE) parts of the file, or may retrieve on the full file. At the user's option, searches may be restricted to the most recently entered segment of the file, to provide for easy-to-use online current awareness searching.

January 1, 1974
FILES SEARCHABLE WITH THE ERIC/DIALOG TERMINAL

(Retrieval Codes are listed alphabetically with an example, a description, and the applications to each file.)

<table>
<thead>
<tr>
<th>Code and Example</th>
<th>Description</th>
<th>ED</th>
<th>EJ</th>
<th>EP</th>
<th>ES</th>
<th>PR</th>
<th>LC</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-94</td>
<td>Legislative Authority Code</td>
<td>AC</td>
<td>AC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AU-&lt;SMITH, J. L.&gt;</td>
<td>Personal Author</td>
<td>AU</td>
<td>AU</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BX-LR-9-5064</td>
<td>Bureau Number</td>
<td>BX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CD-AZ-12</td>
<td>Congressional District</td>
<td>CD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH-CC</td>
<td>Clearinghouse Prefix Code</td>
<td>CH</td>
<td>CH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CX-MOE-1-19-02</td>
<td>Contract/Grant Number</td>
<td>CN</td>
<td>CN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DX-NDEA-50B-149</td>
<td>Report Number</td>
<td>DX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FR-LEWIS, DR. HILDA</td>
<td>Field Reader</td>
<td>FR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GL-AASA9453</td>
<td>Title III Location &amp; Agency Code</td>
<td>GL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ID-READ START</td>
<td>Identifiers</td>
<td>ID</td>
<td>ID</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IS-RIEDEC70</td>
<td>Issue of RIE</td>
<td>IS</td>
<td></td>
<td></td>
<td></td>
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<td>(IT) COMPUTERS</td>
<td>Descriptor</td>
<td>(IT)</td>
<td>(IT)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>JO-ACBP BULLETIN</td>
<td>Journal Citations</td>
<td>JO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PA-00000000</td>
<td>Project Dollar Amounts</td>
<td>PA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PB-65-96</td>
<td>Project Starting Date</td>
<td>PB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PE-65-96</td>
<td>Project Ending Date</td>
<td>PE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PP-ABBIT, MAX G.</td>
<td>Project Investigator</td>
<td>PP</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>PN-DPS-6-66</td>
<td>Title III Project Number</td>
<td>PN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PO-ANDREWS</td>
<td>Project Officer - CNOE</td>
<td>PO</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PS-BELLOTT COLL., WIS</td>
<td>Organizational Source</td>
<td>PS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PY-63</td>
<td>Proposal Submission Date</td>
<td>PY</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RB-BBB90-02</td>
<td>OE Responsible Branch Code</td>
<td>RB</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>RE-94</td>
<td>OE Regions Code Number</td>
<td>RE</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SC-LAH12269</td>
<td>Organizational Source Code</td>
<td>SC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SP-RLD96000</td>
<td>Sponsoring Agency Code</td>
<td>SP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TI-PROBLEM SOLVING</td>
<td>Title</td>
<td>TI</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

"IT." is not required, since system automatically address this field.
"not encoded.

The AIM and ARM data base of Vocation and Technical Information is also available for online searching.
The records in the SDC/INFORM file contain eight different categories of bibliographic information. Five of these categories (shown with asterisks) are indexed for rapid and direct searching, but all categories can be searched on subsets of the file through special ORBIT text-searching features. All information in a citation can be requested by the user through various "print" commands.

<table>
<thead>
<tr>
<th>Title</th>
<th>*Publication Year</th>
<th>*Journal Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Author</td>
<td>*Index Terms</td>
<td>*Update Code</td>
</tr>
<tr>
<td>Source</td>
<td>Abstract</td>
<td>*Company Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(in 1974)</td>
</tr>
</tbody>
</table>

Directly searchable Index Terms are derived from the Abstract and Title categories. At the user's option, searches may be restricted to the most recently entered segment of the file, to provide for easy-to-use online current awareness searching.
## ABM Retrieval Codes

### Prefix Codes

<table>
<thead>
<tr>
<th>Field</th>
<th>Example</th>
<th>Used with Following Commands:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AU=</td>
<td>Author</td>
<td>AU=Harris, David</td>
</tr>
<tr>
<td>CO=</td>
<td>Coden</td>
<td>CO=ABI</td>
</tr>
</tbody>
</table>

### Suffix Codes

<table>
<thead>
<tr>
<th>Field</th>
<th>Example</th>
<th>Used with Commands:</th>
</tr>
</thead>
<tbody>
<tr>
<td>/TI Title (Full Text Indexed) (a)</td>
<td>Business (F) Cycle/TI</td>
<td>SELECT</td>
</tr>
<tr>
<td>/AB Abstract (Full Text Indexed)</td>
<td>Economy (F)War/AB</td>
<td>SELECT</td>
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---

## RETRIEVAL CODES (PREFIX-SUFFIX)

### Table 1 PREFIX CODES

<table>
<thead>
<tr>
<th>Prefix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Commands Used With:</th>
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<tbody>
<tr>
<td>AU=</td>
<td>Author</td>
<td>AU=SMITH, John L.</td>
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<tr>
<td>LA=</td>
<td>Language</td>
<td>LA=AFRI</td>
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</tr>
<tr>
<td>JN=</td>
<td>Journal Name</td>
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<td>YR=</td>
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<tr>
<td>JA=</td>
<td>Journal Announcement</td>
<td>JA=4302</td>
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<td>SC=</td>
<td>Subject Code</td>
<td>SC=00190</td>
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<td>CO=</td>
<td>Coden</td>
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### Table 2 SUFFIX CODES

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<td>/DE</td>
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<td>(Full Text)</td>
<td>Select</td>
</tr>
<tr>
<td>/ID</td>
<td>Subject Index Phrase</td>
<td>(Full Text)</td>
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<tr>
<td>/TI</td>
<td>Title</td>
<td>(Full Text)</td>
<td>Select</td>
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<td>/CS</td>
<td>Corporate Source</td>
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<td>/AB</td>
<td>Abstract</td>
<td>(Full Text)</td>
<td>Select</td>
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</table>
APPENDIX K

Each record contains 11 different categories of bibliographic information. Seven of these categories (shown with asterisks) are directly searchable, but all categories can be searched on subsets of the file through a special text-searching feature. All information in a given citation can be requested by the user through various "print" commands.

*Author
Title
Source Journal
*Language
Accession Number

Citation Identifier

*Publication Year
*Entry Date
*Main Heading or MH/subheading
*MeSH Class Number
*Journal Code
## APPENDIX L

**SDC APILIT and APIPAT**

### APILIT

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</tr>
<tr>
<td>Title</td>
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<td>X</td>
<td>X</td>
</tr>
<tr>
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<td>Title</td>
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<tr>
<td>Entry Date</td>
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L-1
### Table 1 Prefix Codes

<table>
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<th>Prefix Code</th>
<th>Descriptor</th>
<th>Example</th>
<th>Used With Following Commands:</th>
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<tr>
<td>CC=</td>
<td>Country Code</td>
<td>CC=3ARG</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CN=</td>
<td>Country Name</td>
<td>CN-ARGENTINA</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>CO=</td>
<td>Company Name</td>
<td>CO=Abbott Laboratories</td>
<td>EXPAND, SELECT</td>
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<tr>
<td>DT=</td>
<td>Date</td>
<td>DT=73/06</td>
<td>EXPAND, SELECT</td>
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<tr>
<td>EC=</td>
<td>Event Code</td>
<td>EC=150</td>
<td>EXPAND, SELECT</td>
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<tr>
<td>EN=</td>
<td>Event Name</td>
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<td>JO=</td>
<td>Journal Name</td>
<td>JO=Chem Age</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>PC=</td>
<td>Product Code</td>
<td>PC=2841002</td>
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</tr>
<tr>
<td>PN=</td>
<td>Product Name</td>
<td>PN=Acrylic Fibers</td>
<td>EXPAND, SELECT</td>
</tr>
<tr>
<td>TN=</td>
<td>Trade Name</td>
<td>TN=Dow Corning</td>
<td>EXPAND, SELECT</td>
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</table>

<table>
<thead>
<tr>
<th>Suffix Code</th>
<th>Field Name</th>
<th>Example</th>
<th>Used With Following Commands:</th>
</tr>
</thead>
<tbody>
<tr>
<td>/AB</td>
<td>Abstract (full-text indexed)</td>
<td>Japan(F)Oil/AB</td>
<td>SELECT</td>
</tr>
<tr>
<td>/DE</td>
<td>Descriptor (full-text indexed)</td>
<td>Japan(F)Oil Products/DE</td>
<td>SELECT</td>
</tr>
</tbody>
</table>
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