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THE INTELLOFAX SYSTEM (The CIA Library and the Machine Division)

I. EARLY DEVELOPMENTAL HISTORY (1947-54)

A. Objectives and Equipment Needs

In providing a central reference service to CIA and the intelligence community, the early managers of the Agency recognized the need to develop a machine capability for indexing and retrieving a staggering quantity of intelligenee documents. The resulting Intellofax System, which evolved jointly by the Machine Division and the Library, was unique- no other government agency, no university or library and no commercial firm had anything of its type in operation. The name was coined by Dr. Andrews in 1949 to describe the system which combined IBM and facsimile reproduction techniques for intelligence documentation purposes. Later in common parlance, the word was used not only as a nount (the Intellofax System and the Intellofax files) but also as a verb form (intellofaxed and intellofaxing for the indexing aspects) and became a household word in the intelligence community.

The actual authority for establishing the Intellofax System appeared in an ORE Instruction # 31-47, entitled Functions of the Reference Center, dated 15 July 1947.

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Assistant Director of ORE, charged the Central Index (later the Machine Division) and the Intelligence Documents Division (later the CIA Library) to

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25X1A5a1 After numerous meetings with and investigation 25X1A5a1 of other companied, such as the machine 25X1A5a1 and a contract was let in January 1948. experts opted for 25X1A5a1 By July and produced the first of the Library Recorders and had completed the final design for the IBM card scanner. Both awaited OCD approval. Experimenting and testing continued 25X1A9a and in January 1949 reported favorably on the equipment, commenting that

it was indeed gratifying and thrilling to

see the first phase of this development

actually operating and with such fine quality

results. . . it illustrates the all out

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effort that the people of the

been and are putting into the job.

Progress reports were prepared periodically throughout
the first six months of 1949; test runs were made during June
and the equipment was finally accepted in July. The Projecta
Review Committee on 27 July 1949 approved an amendment to the
original contract, which had been in the amount of

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The Intellofax Card, or Faxcard, was an IBM punch card of standard shape and dimensions which bore on its face up to 200 words of printed information, the so-called bibliographic data: source, country, date, title, possible abstract, pagination and security classification. The corresponding coded and punched data appeared at one end of the card. The cards were sorted, selected and

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arranged by standard IBM machines; and the printed information on the selected cards was transmitted and reproduced by facsimile process.

The equipment delivered in May 1950 was the second prototype resulting from the developmental engineering begun in January 1948. "Shake-down" tests were still being conducted in mid-1951 concurrent with actual usage.

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an Office of Communications employee (and formerly an engineer with was on temporary

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duty with CCD and placed in charge of the Faxcard equipment.

He wrote to (chief of the Machine Methods Division since September 1950) that since the equipment was not standard equipment, additional development was anticipated before the stability of the equipment could be placed in a class with that afforded by existing teletype machines.

25X1A9a 25X1A5a1 on the equipment, investigated the potential use and availability of thermo-printers which would reproduce/printed, typed or written data by a heat process.

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Minnesota, was responsive to CCD's urgent need for this type of equipment and agreed to build and demonstrate a protogree of the machine by July 1949. This was the basis for the first Intellofax tapes printed continuously onto thermofax paper, somewhat similar to, though smaller than,

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(1) index, by business machines procedures, the subject matter of all available reports, and other documents of a foreign intelligence nature and (2) classifiy and catalogue all intelligence 25X1A9a materials of a foreign intelligence nature to CIG.

Chief of Central Index, was given the responsibility for organizing and developing the initial essential steps toward establishing a central indexing and filing system, in conformity with an earlier ICAPS recommendation in March 1947. It soon became apparent that no existing equipment would be capable of meeting the needs envisaged. Although an IBM punch card offered great flexibility and speed in the handling of thousands of cards, each of which would represent a particular document, no card would earry enough printed data to supply the researcher with titles and descriptions of documents. During 1947 and 25X1A9a 25X1A5a1 met with top management of

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to discuss the possibilities of the use of

to the documentation problem. A said that his company would be willing to cooperate with IBM in adapting the Telefax machine to automatically reproduce bibliographic and subject abstract data typed on IBM cards onto any type of paper including a duplicating medium. This would answer the problem of preparing accession lists and lists of abstracts requested. (Management originally planned for a daily accession list of those intelligence documents received and indexed, all of which would be abstracted.)

Approved For Refease 2001/08/01 Clarence Center, ORE to Chief Minder Central Index
Approved For Refease 2001/08/01 Clarence Central 300300300000 and Filing Procedures.
7 July 1947, sub: Establishing Central 3004000 and Filing Procedures.
U. (in Chrono 1946-47 59-98/8)

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The Intellofax tape, as it was known through the entire

Intellofax history, was originally a 4 inch wide tape prepared by

the facsimile process. The Intellofax punched card was fed into
which optically scanned the
a transmitter: the printed information.

A receiver received signals from the transmitter; the printed information was impregnated into a chemically treated tape which was dried by a heat process. The resulting continuous role of facsimile tape was folded and ultimately given to the requester.

transmit the Intellofax information to requesters in their own office locations. As of 15 May 1950, 6 transmitters and 12 receivers had been delivered. Experimentation continued throughout the summer months and the first bransmission was strictly local, transmitter and 25X1A6a receiver side by side in the Machine Division. One receiver was placed

in the Branch Library, but security considerations and technical problems of transmission were responsible for not continuing with what seemed like a Utopian transmission phase.

The production of Intellofax tapes in the 1950's and 1960's first by facsimile process and later by the Gard List Camera and Photostat Expeditor always remained in the Machine folder or booklet form) were delivered to the requester hot via electronic transmission but by hand.

* Photo of Transmitter and Receiver

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B. Coding Schemes

1. The Intelligence Subject Code (ISC)

In comformity with ICAPS wishes steps were also

taken by the Central Index to prepare a unified subject

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classification scheme. Trote to in 25X1A9a

July 1947

Although the Reference Branch has taken the initial steps in the direction of establishing central indexing and filing procedures, any unified acceptance of the end product of these investigations will depend upon joint action of IAB and CTA representatives and the agencies final acceptance of the system decided upon.

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On 11 July 1917 entered on

duty as Chief of the Classification Unit of the Intelligence Documents Division to work with the Central Index in developing a classification schedule for CIG.

It was soon evident that the War Department's

Basic Intelligence Directive (BID) devised during World

War II for collection purposes (although it had been used 25X1A6a

for classification of documents in the G-2 Library in

immediately after the war) was not adequate. The subjects listed

in the BID were not sufficiently comprehensive to cover the

wide range of subjects in intelligence documents because it

had been devised for Army purposes only. The economic, political

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and scientific sections were woefully weak. It was decided to prepare a list of subjects which would include those contained in the BID, the Navy Monograph Guide, the abridged Dewey Decimal system used by the State Department, and for scientific subjects, the Voge Classification, prepared and used by the Joint Research and Intelligence Board (JRBD).

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made visits to the parent organizations using these classification schemes.

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Classification Unit of 8 By August 1917 people had completed a general framework of an all-inclusive classification schedule with the assistance of

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a classification specialist from JRBD. (OCD tried unas a permanent employee). The successfully to recruit major subject categories included: Army, Navy, Air, Political, Economic, Sociological, Scientificm Geographic, and Biographic. On 22 August a familiarization meeting was held with duly appointed representatives of the three servies. The participating IMB agencies agreed to develop and/or revise their respective military categories in the BID. To those categories would be added the CIG contribution consisting of the non-military subjects. Because the War Department was not inclined to change the numbering system of the BID (8 digits), it was to be used as the nucleus of the new classification system.

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other agencies. He and had visited the State Department

Idbrarian, who welcomed a comprehensive expansion of the Army, Havy and Air subject chassification, but felt that this expansion should be incorporated into the abridged Devey. The representatives of the TAB agencies seemed to feel that what CIS was trying to do with a new classification would replace the classification which each agency was using. This was, of course, the ultimate aim, but it would not be realized even partially until the Air Force adopted the Intelligence Subject Code in 195h. Each representative took a cosmic view of the fields which were of primary interest to his agency and argued that the whole structure of intelligence would be imperilled by any deviations with its own scheme.

So the Library set about continuing with its own elassification.

The first edition of the Intelligence Subject Code (henceforth III) referred to as the ISC) was dated 15 March 1948. The Preface indicated that the edition was provisional and that the subject headings were intentionally kept rather general so that expansions and revisions could be made as experience required. There was no index to this first edition. A biographic or "Who's Who" class which was in the original outline was deliberately omitted because of the Biographic Intelligence Register of the Reference Center. The main classes and the number of notations (codes) were:

000 International Situation

(32)

100 National Affairs

(120)

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200	Town	(139)		
300	Navy	(181)		
1,00	Air Force	(83)		
500	Weapons a nd	Scientific	Warfare	(1474)
600	Science and	Technology	(82)	

17201

700 Geography and Economics (232)

800 Social and Cultural Forces (67)

Total notations: 980

Each of the eight categories was broken down to provide, as nearly as possible, for the needs of the agency chiefly concerned—the Army, Navy and Air Sections following closely the patterns developed by the three services for their own use. The other sections had been worked over in detail with the ORE units chiefly concerned.

Chapters 100 through 800 retained their overall subject outline until the complete revision of the ISC in November 1960. Further chapter sub-divisions appeared throughout 1948, but it was not until November 1948 that the 600 and 700 sections were expanded to the full six-digit capacity allotted on the IBM card). A relative index (alphabetical) was printed at the same time.

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25X1A9a in the Library who had reported for duty, on 9 February

25X1A9a in mid-191,8 as Chief of the 1948. took over from Analysis Section (formerly Classification Unit). (She remained head of the input or classification effort for the Intellofan System almost 20 years until the demise of the system the end of 1947.) She worked closely with analysts of ORE/ ORR and CSI in the continuous revision process during the first five years, ensure more effective organization of the information in documents. These research analysts pointed out deficiencies in certain subject fields and suggested appropriate changes. Most suggestions benefited and improved the ISC; others refelcted only parochial needs of insistent and narrow-in-outlook requesters who raised their subject specialty out of all proportion to the entire scheme of knowledge. ? The latter type of requester made one section of the ISC look ridiculous: the subject code for Plant Pathology (632.4) was sub-divided into 68 different codes for wheat, rye, barley, oat and miscellaneous crop diseases with the names in English followed by the scientific term in Latin.

The 1949 ISC resembled the original 1918 edition only in the 8 major chapter headings. Within each chapter much restructuring book place. A new heading for Communism was added and the 114 section became the most widely used and remembered throughout the the book. Geography was moved from 700 to the 600 chapter. In 1950

at the time the Library decided to catalog books according to the ISC, a 900 chapter (Organization of Information) was added.

The history of the ISC from 1948 through 1967 was a history of change and hoped-for improvement. 980 codes grow to 5,000. A review of the master copies of the ISC during these years reveals many pages of revisions.

Actual New editions were published in 1954, 1957, 1960, 1962, 1964 and 1967. Changes in subject codes necessitated the preparation of new cards. The printed information was transferred from the old card to the new card by means of a heat process, whereas the punched data was converted by machine under punches to the new codes. This was a time-consuming process and caused backlogs in the Machine Division. (The biggest change to an entirely new ISC in 1960 did not involve conversion; thereafter, the Intellofax cards were kept in separate files—"A" file from 1960 on and "B" file-pre-1960).

All classification schemes have limitations and the ISC was no exception, particularly since code expansion was tied into the allotted spaces on the IBM card. Library personnel always worked closely with the Machine Division personnel before anything unique was adopted. As mentioned earlier, the full digit expansion of the 700 chapter went into effect in November 1948. By 1950 it become evident that certain aspects

of information could be uniformly applied to almost all and equipment commodity, subject codes in that chapter. These "actions" were production data; imports-exports; maintenance, repair, replacement and construction; procurement, etc. The Library and the Machine Division personnel worked out a unique scheme for affixing a modifier before the subject code.

A list of one to two digit "action" or prefix modifier codes was established. The classifier entered them on the code sheet by placing a slash between the modifier and subject code. For example, the production of coal was written as 1/735.1. The slash appeared on the IBM card as an overpunch in columns 1-6 (subject field).

this important change in the coding process extended eventually by 1954 to seem other chapters of the ISC.

Prefix modiers were applied to the military chapters in 1954 for such aspects as security, vulnerability, sabotage, order of battle, specifications and description of miltary equipment.

Other coding devices were inaugurated. One

of the subject codes—115 (Insurgent Groups) had no further

breakdowns. At the request of the ORE/Greek desk at the

time of guerrilla uprising in Greece the following

instruction appeared in the 1949 ISC: The 115 code may be combined

with the first digits of any classification number throughout

the ISC, e.g. monetary system of Greek fuerrillas—115.773.

The same rule same rules to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the provided in the same rules applied to the 900 chapter lessification of the 900 chapter less applied to 900 chapter lessification of the 900 chapter lessification of the 900 chapter lessification of the 900 chapter less applied to 900 chapter l

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Coding specificity was also achieved in another manner.
other instances. A list of languages, minorities and cultures
was prepared and coordinated with Andrews (his specialty)
and the 3 digit identification could be combined
with either the 117 code for minorities or the 876 code for
foreign languages. For example, the Italian minority was
coded 117.119 and the Italian language was coded 876.119.

Statistics compiled for the Intellefax System indicated that an average of subject codes were assigned per document.

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2. Area Classification

Library Classification as the best and most adaptable system for coding geographic areas. According to this system the world was divided into 26 main divisions, A through Z. Each alphabetic division was further subdivided, moving from right to left with a numeric designation. For example:

M Europe

11M Scandinavia

11M Denmark

21M Finland

BLM Norway

LIM Sweden

111M Northern Sweden

241M Southern Sweden

ams did not maintain its area classification on an up-to-date basis; therefore, the Analysis Branch (the Section became a Branch early in 1950) was constantly expanding the code and updating it to specific Intellofax needs. When India was divided into India and Pakistan in 1948, the former code of 5U became EU for India and NU for Pakistan, with further subdivisions for both countries. Political-geographic concepts and some types of country relationships were designated by means of a slash(/) which always followed an area code. For example, A denoted a League, Confederation, Axis or International Organization. Thus, the Arab League was coded 6K/A; the United Nations became 1/A. (1 had been

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noted Communist influenced or dominated countries and was used effectively with the Eastern European or Far Eastern blocs. By this device the Machine Division could easily retrieve information on all Communist countries (other than USSR which had its own area code of N). It was easy to segregate the Russian Zone of Germany (LM/C) from West Germany (LM/C).

Related Areas

The original design of the IBM card allowed for digits (columns 7-10) of the AMS code. Soon thereafter, column 11 was allotted to the slash. Two years of experience pointed up the inability of being able to show any area relationships. This came to a head with the 1950 Korean War, when it seemed necessary to be able to show some combination of Communist China, USSR, North Korea, South Korea or the USA. The entire punching area of the IBM card (other than the subject field which always remained the first of digits) was revamped, eliminating certain codes with did not seem necessary, such as day of publication and date of information and adding other codes, such as two digit abbreviated area codes to be used only as related areas. in columns 19-22. The revamped card of February 1950 provided

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Area Codes

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space for two related areas of digits each. Area codes with contained more than digits became abbreviated, such as 228M to SI for Spain. The classifier * indicated them on the code sheet with a parenthesis to alert the key punchers.

Example: N (6M)(JM) - some relationship between the USSR (N) and France (6M) and Russian Zone of Germany (JM)

Area File

The advent of the Korean War also brought out the meed for a separate file arranged by area. Requests which were coming in for everything on Korea could not be answered quickly because the primary file arrangement of the Intellofax card was by subject code. Beginning September 1950, the Machine Division started an adjunct free File by preparing one extra card for each main area (there was no card filed by related area). No subject code was punched into the card. The Area File filled a specific need at the time, when many analysts were weefully ignorant of Korea. It continued to serve effectively in retrieving all information on smaller areas, such as the oblasts of the UBSR and the prvinces of China. Because the Area File grew so rapidly and was consequently useless for large areas in its set-up without subject code punches, the Analysis Branch and the Reference Branch made an agreement, concurred in by the Machine Division, that area cards would be punched only for

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^{*} Analysis Branch professional personnel were called by various titles: classifiers, indexers, coders the most common, but the least professional), and finally Library or document analysts.

Area (Approved For Release 2001/08/01: CD 2008/4-00951R000300040008-9

the European satellites (except the Russian formular). USSR oblasts, Central (except Mexico) and South American countries, African countries, Asiatic countries (incl. Near, Middle and Far East), Finland, Yugoslavia, Trieste, the Vatican, and islands (except Australia and New Zealand).

In 1955 another important change was made to the Area File. The classifier underlined one subject/area combination considered most representative of the whole document. The entire A digit subject code was punched into the area card, but within a given area the card was filed only by the first digits of the ISC.

3. Miscellaneous Codes

a. Security Classification

With the completion, (although continual revision, of the ISC and the adoption of the AMS Area Classification, thought was also given to other necessary codes to be punched into the IBM card for complete retrieval. Dr. Andrews issued a memorandum on 3 January 1949 to "All Hands, OCD", establishing uniform codes to be used on all OCD coding operations. The Procedure Manuals of the Intellofax System (1949, 1954, 1959, 1960, 1967) show the security classifications with various controls which evolved as more and more non-CTA requesters used the '. In 1949, in addition to the actual security classification codes, there were only two types of controls--US Officials Only and CIA Internal Use Only. Over the years, others were added to the coding pattern so that the machines could eliminate certain document citations with controls such as Controlled Dissemination, Warning Notice-Sensitive Sources, No Dissem Abroad, No Foreign Dissem, etc. b. Source Locator

In June 1948 the Library issued Library Bulletin No. 1.
Entitled the Locator System, it explained that the intelligence document files in the Library had been set up according to "A" and "S" files. An arbitrary division, it was devised for

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practical and simplified location and filing of documents.

"A" files included mainly attache reports and State

despatches as well as CIA raw intelligence (00-B's and SO's).

"3" files included mainly finished intelligence, intelligence

symmaries, monthly or weekly reports, and the like. The

first number in the locator was a digit code assigned to

a particular agency. The remaining digits were the country and

the post for "A" type documents and branch and division of

the agency for "S" type. Thus, 05A0601 referred to Army attache

report from

Army series type document from the Far East Command, ATIS.

These same designations were also used for indicating the source

of the document on the Intellofax punch card.

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bulletin because of numerous changes in organizational divisions of government agencies. In the intervening year, in addition to the "A" and "S" type categories, four more had been added:

"C" correspondence and Executive Registry material, "G" basic intelligence studies, "L" bibliographies and "P" press. By

February 1950 these arbitrary type designations were no longer punched in to the Intellofax card.

The Maight source locators remained basically unchanged until May 1951, when specific city or post locators for Army, Navy and Air attaché reports were no longer considered necessary

for retrieval. By January 1956 only the & digit source locator was used for everything except CTA, foreign government reports and Rop Secret documents.

01 - Air

02- GIA

03- Navy

Oh- State

05- Army

OG- Defense in general

07.11 Other government agencies

15- Executive, Legislative and Judicial Branches

16- Non-dovernment

17- International Organizations

18- Foreign Governments

The coding schemes described in the previous pages provided selectivity in retrieval. Requesters were always urged to be as specific as possible on subject requests and not to ask for too general a subject, such as Politics (the entire 100 chapter The only reason for a digit ISC was of the ISC)to pinpoint specific subjects, if possible. Provincial breakdowns of USSR and China helped area specialists. Requesters were also reminded that the date of publication was punched in the IBM card. Why ask for all years when only 1950 was needed? Security chassification and source specificity were part of the retrieval picture, although not requested as often as subject, area and date limitations. Requesters sometimes thought they knew the source of a document and they proved to be wrong when a rerun was made for all sources. The same was often true about date.

The following is a typical request using all the

code selectivity:

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26xemunist Party penetration of labor organizations in during 1949-50. CIA document (SO) only.

Through Confidential. Original card format Subject code (columns 1-6) 111,562 6I . (columns 7010) Country cods (columns 24-25) 49-50 Dates 02~ChOh Bource (columns 13-20) Security classification (columnal2) 3

4. Abbreviation File

A reference tool which the classifiers found a need for as early as January 1949 was a list of abbreviations of organizations which appeared in intelligence documents. A manual file of 3" x 5" cards was established out of necessity because there was no one list of abbreviations, particularly of a classified nature, which met the complete need for identification. A statement of functions of the CIA Library in September 1950 included: "Maintain and service a central file of abbreviations and code names for intelligence documents."

Established originally because of an indexing need, the growing (19,000 by 1959)

Abbreviation File was also used by the reference librarians when published lists of abbreviations did not answer specific reference queries. The card contained the abbreviation, the area, the title translatic the abbreviation the foreign title, a brief descriptive comment, and the source of ffices throughout CIA, particularly FDD, supplied hundreds of

abbreviations and their identification to this File. A note appeared in Approved For Release 2001/08/01: CIA-RDP84-00951R000300040 0082 from outsmark.

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the front of the CIA Telephone Directory under services of the CIA Library encouraging requesters to make use of the File. In 1954 a publication was distributed entitled "Abbreviations of U.S., and International 25×1×7 Organizations of Intelligence Interest" (CD # 1).

Thereafter requests were received to publish certain segments of area interest, such as all Russian abbreviations, but there had been no attempt to confirm translations or even the correct foreign language title.

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C. Data Zingh

Daily Reports

from the Very Beginning, The Reference Center was eager to begin some kind of indexing using machine techniques, so while negotiations were continuing for the development of the Intellofax equipment and for the construction of a unified classification scheme, management decided to index the Daily Reports. This actually became the first data base available for machine retrieval from the Reference Center. Two analysts from the Classification Unit were assigned this task and that manpower coverage continued until indexing was discontinued in 1952. Card punching began on 19 August 1947. The index cards contained the following information: security classificationy pamphlet date; one Waigit subject from Wmajor subject categories (Army, Navy, Air, Science and Geography, Domestic Political Affairs, Foreign Political Affairs, Economics. Sociology and Miscell/moous); page reference; intercept headline; transmitter; target countries. 99 countries with a digit sequential code made up the area codes. The requester was furnished with a listing of the selected cards showing: intercept heading; page reference; pamphlet date; security classification and areas. By the end of September 1947 14,762 cards had been punched and filed. By November the index covered reports issued since Mask1A7b

This method of indexing Daily Reports continued

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effect what allowed for a redesign of this particular IBM card in order to make use of the ISC subject and area codes. Again only one subject code was permitted. The name of a prominent individual was entered in the first 15 spaces of the caption, which was restricted to 40 spaces.

A year later and the CIA Library jointly

prepared for inclusion in the front cover of all restricted

issues a short announcement advertising the available

indexing facilities. Based on recurring requirements from
the Library sent out
certain offices, particularly ORE/ORR and OSI, typed

lists of pertinent titles to these offices every week.

continuance of the indexing of the Daily Reports for Associated reasons: Requests averaged only 10 a month plus four recurring requests; and with indexing restricted to one subject per article because of workload in the Analysis Branch and in the Machine Division, adequate cross references to cover all subjects within an article could not be made.

The Chief, Analysis Branch in a memo to the CIA Librarian stated that the two analysts thus released would be able to devote full time to help; reduce the Intellofax backlog of several thousand documents.

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Dr. Andrews concurred because of severe 1952 manpower cuts and because the OCD Registers picked up the found personality and industrial plant information in the Daily Reports. On 6 February the Library discontinued the coding of all radio broadcast information. Although the IBM cards were retired to Records Centers, the Library retained a master printed form of all the coding effort.

The issue of the desirability of re-establishing 25X1A76

a machine index to the Daily Reports was raised periodically. (See Library Consultants Report of 1957 and Herner Contract of 1958)

2. Early Intellorax Coverage

With the publication of the ISC in March 1948
it was possible to start indexing in earnest. The first
[15]
efforts were confined to 0058 reports. One Transmittal Sheet
was prepared for each document: It contained a bibliographic
statement, an abstract of the contents and pertinent
codes. Until the Central Index had typing personnel and
reproducing equipment to type and reproduce abstracts on the
tabulating cards, only the punched data appeared on the
IBM cards and the Transmittal Sheets were filled in the Library.

Plans called for the receipt of 1,000 documents a day. Experience already showed that a classifier could abstract only 30 documents a day. Becker noted in dune 1948

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that a T/O or 20 professionals in the Analysis Section would not provide adequate manpower to abstract every document. In Movember the current intake was between 100 and 500 items a day. The 1918 backlog of a pproximately 12,000 50 (predecessor of CS documents from the Clandestine Services) and 3000 other CIA reports was decreasing by 17 Of the backlog of non-CIA reports it was estimated that for the 154,000 items would not warrant indexing because of content. The unclassified and restricted documents for 1948 were indexed by Special Projects # 1 ("the pool") Documents issued in 1946 and 1917 were processed but only those of priority areas of interest. Becker stated that it would appear possible that "we can set a 1 January 1949 target for providing daily teb-fax service." And this did occur.

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In a report to the Assistant Librarian on 9

March 19h9, gave the following status report

of Intellofax coverage 18/

a. All "A" type reports were currently indexed since September 1948

b. "S" type documents were selectively indexed, such as all State Old reports, and Top Secret reports.

c. All correspondence with an Executive Registry number.

d. All bibliographies on file in the Tobrary

e. All loan items

Heavy backlogs frequently fequired stringent measures that affected coverage/ For 4 months in 1949 unclassified

State Department despatches were not indexed. This was 25X1A6a briefly expanded to include any document from or

African and Latin American posts. No effort was made later to fill this void.

Document coverage rose from 46,681 documents in 1948
to 227,106 in 1950 or a total of 414,329 documents indexed
19/
into the Intellofax System the first 3 years. There are no
comparable figures available on the number of Intellofax
requests received in this same period. From 1951 through 1953
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requests from CIA and non-CIA users averaged 344 monthly.

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3. NODEX

Early in the indexing processing it became apparent that certain documents dealt with information that was of little or no intelligence value for retrieval purposes, The term "NODEX" was coined to represent those documents which would not be indexed into the Intellocax System. Originally these were documents of a purely administrative nature. As the System grew, however, more subjective judgment as to the value of certain information for Intellofax retrieval purposes was exercised and the list of NODEX items grew and changed. In some cases, it was subject information which was rejected in other cases, it was an entire series. There was no way the Library could prevent the receipt of these documents; besides, some effice in the Agency might went to see them. The whole question of what should be redexed was many much debated throughout the entire Intellofax history. No two researchers agreed, and much criticism was levied on the System because of certain NCDEX decisions.

The selection out criteria in the early days of the entirely

Ditellofax System fell, upon the classifier, who would so mark

a Locument and its attached control card in the batch envelope.

Attached control card in the batch envelope.

The Incoming and Dispatch Unit of the Library seen recognized certain series, such as Army Who's Who Reports. These were batched separately and did not even come to the attention

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of the classifier. A control card was prepared so that there regord in the Source Files for every card, however, contained only redeived i.e. spurce, d'ochment dlassification. The title and This abbreviated notation not entered oreated problems in searching through document identification.

The early 1950 NODEX Standards included such topics or series as:

- a. Purely administrative mayters
- b. Consular or commercial functions (replies to complaints of Americans about lack of service)
- c. Notification of change in security classification
- d. Agendas of various international committees
- e. Order of battle (considered a military responsibility)
- fo Transmittals of enclosures not attached and not described adequately enough for indexing
- g. Industrial Card File (ICF) reports giving primarily plant data
- h. Who's Who reports
- i. Joint Weekas (considered cables)

Out of 17,367 documents pricessed in January 1951, bit the total, were produced nodexed or **M**

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A printed list entitled "NODEX Standards from Start of Intellofax System to July 1966 (Effective Putes of NODEX are in Parenthesis)* is indicative of the colorful history of the NODEX program. (see attachment) Throughout the years, classifiers and reference Librarians were always reminded that the list was only a guide and that a document should not excluded from Intellofax subject control because some items within the Standards appeared in it.

(For microfilming of NODEXES see page 43)

Excluded from automatic

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L. Cables

decided that cables and telegrams would not be considered a part of the central reference system for subject/crea retrieval. There was no question as to their current intelligence value, but OCD did not consider them vital to retrospective searching and therefore felt it was uneconomical to index the enormous cable flow.

This philosophy carried throughout the years of the Intellofax System, although there was a brief flurry of a cable indexing experiment in 1963/64 (see ____)

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D. INtellofax Procedures

1. The Batch System

I August 1918 CCD management decided that a review of the existing and contemplated document handling procedures should be made with a view to determining if such procedures could be modified to expedite the distribution, classification and indexing of documents pending the fulfillment of T/O requirements. of Administration and Management worked closely wit in setting up a detailed procedure for the use of multilith mats in controlling and indexing intelligence documents. This was the beginning of the so-called "batch" system which was modified many times during the next 19 years. A batch usually contained in one envelope 15-20 documents of like source; (This was similar to the organization of the dissemination function in the Liaison Division) not organised by source breakdown until April 1952.)

Put into operation in December 1948, the system included the complete processing cycle of dissemination, distribution, indexing, key punching and final filing of the documents in the Library document files. On one multilith mat with a preprinted distribution ladder for dissemination points within the Agency was typed bibliographic information (source, date, title, security classification, etc.); this mat was the basis for the preparation of control clips

(a cut cff N/A card) to be attached to each distributed copy of a dominent.

One control slip also became a source card (see page 45)

* See attachment for Batch procedures of 13 December 1940 PT

GROUP 1 Excluded from automatic downgrading and declassification

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The classifier used one of these control slips or cards on which to write the necessary codes for ultimate key punching. The typist prepared another multilith mat to be married with the punched IBM card.

The resulting Intell@fax card contained fields on the left for the codes; on the right end of the card was the printed bibliographic information which could be easily read by the naked eye. This duplicate was preparation of multilith mats continued until 1956, when a revised batch system eliminated the preparation of control cards for distribution purposes.

In September 1969 each classifier was assigned an Intellofax stamp bearing his individual number. Used instead of the classifier's initials, the stamp was efficied in three places: (L) on the face of the document to indicate that indexing had been completed; (2) on the control card for the codes, so that key punchers could question a classifier, if necessary; and (3) on the Batch Control Sheet which stayed with the group of documents through the various processing steps.

A review of the first Procedure Manuals written in 1948 and 1949 for the machine operations and for the indexing of documents shows the intricacies of the Intellofar System as it developed. A procedure had

[#] See sample control slip

^{*} See sample Intelletat care

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to be written for every exception.

For example, just to mention a few: Extra IBM cards were printed for a number of offices- Top Secret Control in order to set up its own source card file; Contact Office the Intellofax card for every 00-B document coded so that it could be matched with 00's own contact card (and this procedure continued until 1967); Reference Branch of the Library for every Finished Intelligence and Basic Intelligence document for setting up a cumulative index by subject, area and title (this stopped in 1953); and CRE and OSI offices which were engaged in the abstract program (see page 34). A special procedure was written for loan documents what had to be microfilmed. If more than Ily subject codes appeared on the control slip, the classifier wrote "MATS" on the Batch Control Sheet opposite the CTA control number in the "coded" column to indicate that additional Intellorax cards were needed.

As the years progressed, the system became more involved and procedures were constantly revised and hopefully improved.

The Machine Division and the Library personnel worked hand-in-hand in developing better and faster methods of processing the document flow and in taking care of users! needs.

* See sample Batch Control Sheet

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2. "Flash"

An indexing economy which developed was the socalled "Flash" procedure. By January 1949 classifiers recognized that there was a sizyable segment of documents which covered the same subject matter each time and which were issued periodically. "Quarterly Milytany Review", "Weekly List of Infectious Diseases", "Semi-Annual Railroad Statistics" were a few examples. It was a waste of indexing and key punching effort to code these documents every time they appeared. The c such a document was encounteredoit was coded and abstracted in a table of contents manner; the Intellofan card bore the usual bibliographic statement but without report number or date. The word "Flash" expected on the IBM card. A master Transmittal Sheet on which the abstract was prepared was filed in the "Wlash" book in the Analysis Branch. Every time a similar document was received, its report number and date were entered into the FFlash" book on the Transmittal Sheet. When a subject retrieval request turned up the original "Flash" card, the librarian or classifier knew that he must refer to the "Flash" book to find all the documents which had been published and received. This "Flash" record was the only means of determining document numbers in order to retrieve the material fut of the document file.

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Although lists of "Flashed" reports were periodically distributed to the classifiers—4 and the lists grow—4 the classifiers were always reminded to glance at the current documents to guarantee they were sufficiently covered by the codes originally established. Changes in the ISC as well as wider subject coverage in the series did necessitate added coded.

The "Flash" system finally outlived its usefulness.

Irregularity of assuance of certain series, the manual labor involved in maintaining the "Flash" book

(for a period one copy was maintained in the Reference Branch also), the nuisance of not having a source card for every document, and the advent of the revised Intellofax system—all combined to its demise in 1960.

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Abstract Program

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3. The Abstracting Program

Dr. Andrews was very proud of his central reference

facilities and by late 1939 he felt that CCD was on

the track of a "far more effective solution to

providing analysts with quick retrieval of intelligence

information than has ever, anywheren been achieved

before." He devoted 32 pages to a definitive description

of the Intelligence Facilities. Status (1 November 1949)

and Objectives." (He had prepared this paper at the

request of Chief, COAPS for the information of all offices.)

The Table of Contents is indicative of the complete

coverage of his subject:

Summary
Glossary (of Intellofax terms)
Magnitude of the Problem
Classification Scheme
Intellofax System
Index Files
Abstract Files
Highly Decialized Reference Problems

In his usual dynamic approach, Andrews had briefed specialists in OPE on the potentialities of the Intellofax System and how analyst participation in the growth of the file would benefit the system and therefore the whole agency. In other words, he was asking analysts if they would like to contribute coded abstracts to the file. He stated that only the specialist could decide

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Abstracting

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which we the important documents bearing upon his field of specialty and on the specialist could write competent abstracts of such documents, first approach was to the NEA Division of ORE because he knew the Division Chief well. IN January began selecting and abstracting of 1949 the The assumption the most important documents on was that if the system could be made to work satisfactorily for one area, then it could possibly be extended to specialists on other areas. OSI also commenced operations on a trial basis in February, and the Greek desk of ORE in March. (History repeats 25X6A itself! Turing 1972/73 the GTI area of OCI is providing input to CRS's AEGIS computer system on an experimental basis.) OCD meanwhile continued to write abstracts of a table of contents type for publications covering a wide variety of subjects and areas. On pages 23 and 25 of the Intellefax study. Dr. Andrews provided samples of CCR, ORE and OSI abstract cards. A so-called contributor code was punched into column 21 of the IBM card so that if a specialist ever wanted to retrieve only his own abstracted material, he could do so.

The two desks in CRE providing theme abstracts

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exceedingly useful and that the process of writing abstracts had in itself yielded a number of unforeseen but highly valuable by-products, such as: If time saved in producing weekly and monthly summaries. I carbon copy of the abstract or Transmittal Sheet was filed in folders in a strictly chronological order and provided the desk chief a fully documented history of day-to-day events in the two countries. If training of junior professionals was improved, speeded up and thoroughly locked into the production system by the assignment of writing abstracts. (A fechnically difficult reports no longer went into the Whold" basket but were analyzed, researched and abstracted. (A file space was saved, because the abstract could replace the original report.

Much as he had fostered and approved of the abstracting program, Dr. Andrews became concerned about the rapid growth of the abstract files in Intellofax. By the end of the year there were 18,047 abstracts (CCD_2847; ORE_6245; OSI_8955), and they were growing at a staggering rate. He warned that each extension of the system to a new group of specialists involved difficult adjustments, revisions and expansions in the classification scheme, required more typists and could be accomplished only by day—to—day hard work. How true!

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spent a large proportion of her time in 1949 and 1950 working on changes and expansions of the ISC to satisfy the needs of these new contributors. Area codes for three of the Near Eastern countries were expanded to take care of provincial divisions. This later created some problems because they were never used for retrieval in the Intellofax System.

Dr. Andrews concluded the Summary to his study with these pertinent words:

Because of the selectivity being exercised in building up the abstract files, we are forging a tool which in years ahead will enable us to drain off from the Library thode documents which are of scaut importance, thus making room for the current inflow and ensuring that reports of real importance are held available. It is quite possible that the central reference system being built by CIA will ultimate of prove the most important central intelligence service which the Agency provides.

The abstracting program mushroomed from its beginnings program in 1949 reaching a drescends in the early 1950's. The

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of NEA joined the program in 1950, as

did Agriculture/EE Division. In 1950 ORR contributed

21/
16,558 abstracts; OSI-20,186. Some of these desks even set up
their filing systems according to the ISC subject breakdowns.

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OffR
Other divisions or branches began to contribute in 1951 25X1A9a
on the encouragement of the Assistant Director,
who was interested in space saving. Off contributed
16,558 abstracts in 1950 and 10,695 in 1951. OSI contributions
amounted to 20,186 in 1950 and 20,715 in 1951.

However, the downward trend began in 1952/53 as because specialists in ORR and OSI were interested in spending their time learning how to use the ISC correctly for in-depth indexing CSI/Physics and OSI/Medicine were heavy contributors but finally ceased in 1954 and 1955 respectively. We ORR/Shipbuilding her the last ORR component to stop input,

outld preclude the indexing of the same documents by the contributions would preclude the indexing of the same documents by the contributions. This was never possible, for the specialists frequently extracted and coded only that part of the document that interested them. There was never any guarantee that the entire document was covered. So duplication continued; both TBM cards would turn up on a machine run if the same codes had been used (and there was no guarantee of this, either.). In such a case, the OUD classifier or the librarian in screening the cards before an Intellocax tape was made would pull put the non-obstracted card as being less meaningful.

thay production the abstraction the sate of abstraction the analysis branches to the analysis branches to the analysis branches to the analysis branches as the further abstract to the analysis for his own falses from 24 thus.

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A great danger to the Intellocar System later surfaced that he research offices had stopped the abstracting program. References turned up that could will not be retrieved and larger, such as articles in Russian scientific journals indexed by OSI and Later thrown arey.

Mo limit as to sowrce material had been placed on the specialist, who might even want to extract or prepare an abstract from the New York Times. In the mid-1960's (exact date not confirmed) all IBM cards with the contributor code were pulled and destroyed for they added nothing to the Intellocar file, but rather created retrieval difficulties.

E. The Microfilm Program

One of CCD's problems was that of keeping the Library operating at a maximum peak of efficiency. The Intellofax System had made available a greater volume of library document references to a larger number of requesters than had ever before been possible. The increased output of the System had resulted in a corresponding increase in requests for the documentary materials referenced. In wishing to offer maximum service to all offices, the Library was faced with the dildmma of coalescing two variations in point of view as to these services. On the one hand some of the Library users insisted on an inviolate set of documents in the Library at all times. On the other hand, some insisted on the availability of library materials to their respective offices upon demand. In answering this criticism by an ORR analyst. Becker wrote:

We clearly recognize the need for ensuring the availability of a master set of documents; however, keeping an original document collection poses problems of filing, space, circulation and reference which are almost overwhelming.

With 617,562 intelligence documents on file (but not all indexed) in the Ligrary by September 1950, space had also become a serious problem. There was no doubt in anyone's mind that microfilming was urgently needed.

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INTELLOFAX—page lil Approved For Release 2001/08/01: CIA-RDP84-00951R0903000040008-9 Microfilming

In March 1950 the Library began experimenting with a microfilm and print procedure and by mid-1951 it began to microfilm all single-copy material on 35 mm, reel film.

together to develop the best sort of system to solve the Library
document storage and retrieval problem. In January 1951

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25X1A5a1

his deputy.

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mounted into an IBM aperture or window card. This system allowed each document that was microfilmed to become a separate entity in itself and not just part of a reel, as was generally the case in most microfilm applications up to that time.

In October 1951 Becker told Dr. Andrews that the problem was urgent and he proposed that the Library microfilm all incoming documents, keeping a copy of the document as well as the microfilm. The latter would be available at all times both for viewing purposes and for reproduction in cases where the requester wished to retain a copy. On 19 December 1951 the Project Review Committee authorized "microfilming of all significant incoming intelligence documents" and approved funds in the amount of

25X1A1a 25X1A1a for the initial purchase of equipment and in the amount of the annual costs of personal services and supplies.

Microfilming Approved For Release 2001/08/01 : CIA-RDF 04-00951R000300040008-9

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	because of jurisdictional questions raised by then ations and Methods Services surveyed the proprosed OCD	Efice of 25X1A9a
	in Project and submitted a final report on 15 October 1953,	
	mmended that the personnel required for operation of the sy	
by on the	al Services. According to the proposed system	0 ff1ce 25X1A9a
would ach	hieve by 1956 the following : immediate film insp	
immediate	e customer service on the entire collection, eliminate trac	ing of
documents	s and repeat borrowings from other agencies, about 90% econ	omy in
space and	d giling equipment, better utilization and conservation of	personnel,
will perm	mit reduction in size of researchers! files and will expedi	
chain rou	uting of documents. 26b/	

and 1953. At a CIA Bidget hearing in 1953, Dr. Andrews stated that the Machine Division's prime job was to keep pace with new devalopments all over the country but that the most important research then at hand was to develop a microfilm processor that, in conjunction with the Intellofan equipment, would ensure that the Idbrary would give to the analyst the rocuments which he asked for.

in March 1954. The following equipment had been ordered and was on hand: two microfilm cameras for the purpose of making 25X1A5a1 initial microfilm reels, three , one Microtonics Film Printer for copying the original reels, (one copy of the reel was placed in the Vital Documents Repository),

"mounters" to cut the microfilm reels and install the frames in
the aperture cards, one Photostat Printer-Processor to make positive

prints from the aperture gards,

The aperture card was a punch card which had information identifying the microfilmed document printed across the top and lorm. film images of an intellectance document mounted in apertures (openingal on the right-hand side. Aperture cards varied in that a single aperture might contain one, two, three or four apertures. Each aperture contained a maximum of two film images, each image being one page of a document. The basic procedures of microfilming documents did not ghange materially until 1966 when 35mm. film was used for the preparation of aperture cards instead of 16mm. film. Detailed procedures were outlined in

Approved For Release 200 1/08/01: CIA/RDP84-00951R000300040008-9 dated December 1959.

A screening committee of librarians and machine people

INTELLOTAL—page listant

Microfilming

Applogate for Release, which is the Deskables 1800 and 1819 documents at

the intake point and to work up proper procedures. The first documents microfilmed were State Department despatches. These were followed by Air Force reports (from an original caalid copy, which had to be returned to the Air Force within 48 hours) in April; by Army and Navy reports in July; and by the last segment—CIA reports—in September.

The aperture cards were filed in the Circulation

Branch of the Library by control number essigned to the

document. 35mm. reel film was used for documents over 50 pages

in length. Bulky and oversized documents were not microfilmed.

The remainder of the documents were photographed on 16mm. film.

(See page 46 for microfilm designators of control numbers on

somree cards.)

With full-scale microfilming in effect, the

Idbrary and the Machine Division soon decided labe in 195h not to

microfilm NODEX documents because their contents did not meet

indexing standards. In April 1955 this decision was amended so

the microfilming would occur only for those NODEXES that were

single copy, required further routing, contained enclosures or

were of CIA origin, thus ensuring an inviokate copy in the Library.

In the step-by-step processing or batch procedures established for the flow of most documents, microfilming occurred after indexing, so that NODEX determination could be made first.

This had one big disadvantage in that the microfilm of the document was not on file until after all other provessing had been completed.

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Print service from the aperture film became the responsibility of the Circulation Branch. Any equipment developments or problems were the responsibility of the Machine Division, such as experimenting with improved aperture card positioners for Filmsort viewers and with methods of printing documents from the microfilm viewers.

Figure 13 Aperture Card From the Aperture Card File

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Source Card

F. The Bource Card File

An important by-product of the Intellofax

System was the esymblishment of a source card file. The

Library early recognized the need for a card catalog

of document sources, similar to the author file

in a book catalog. In the first coding efforts of

1948 the classifier wrote the codes on a 3 x 5

form on which the typists had typed the bibliographic

data. This so-called 35-2 (so-called from the form

number) was filed in the Library by source after the

completion of key punching. With the anauguration

of the Batch System and the use of multilith mats

for the preparation of the bibliographic data onto

the IBM card, the Machine Division provided the Idbrary

with a 3 x 5 eard.

source cards

These "cut" Intellofax cards were used as until 1965 when the Library agreed to accept from the Machine Division a punched Intellofax card, the powentage presumably being that these source cards could be sorted daily by machines.

The source card file served several purposes:

(1) inventory of document holdings; (2) identification
a document and (3) location of a document. Requesters

looking for a specific document often did not have the

^{*} See page 29

^{** **} Discussion had begun 10 years earlier in 1955.

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Source card

OR OTHER T

The source cards were filed by source, year of publication, specific post or agency breakdown and document number.

A brief title description of the enclosure palse whether it was received or not received, microfilmed or not microfilmed, appeared on the card. After the librarian in the Circulation Branch had identified the document, the she could then find it in the files- either in hard copy files maintained in the samessequence as the source card file or after 1954 on microfilm. The approach to the microfilm was only through the document control number that

"O" control number--- on 16 mm. aperture card

"C" control number--- on 35 mm. reel

"V" control number--- not microfilmed and in hard copy

The source card which was prepared for NODEXES contained only an abbreviated bibliographic entry, i.e., source, document number, date and security classification. The title and country were not entered. This abbreviated adation saved typing time, but created problems for the Circulation Branch librarians who searched the Source Card File for document identification.

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Library

Maintain and service a central file of abbreviations and code names of intelligence documents

(Statement of Functions 20 Bept 50 from Ex AD/CD to Management Officer)

in Felder \$14/1414/1911/418 Box 59-875/1 OCD History 1947--

SECRET