

ATTACHMENT 3

THE NRC OPTICAL DISK PROJECT OVERVIEW



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NRC TRANSITIONAL LICENSING SUPPORT SYSTEM

- Interim Approach for Capture, Storage and Retrieval of NRC HLW Records (Rusche-Davis Agreement)
- NRC HLW Digitized Records to Become Part of Future LSS
- NRC Continuing to Demonstrate
 - Full Text Search and Image Retrieval
 - Preliminary System Requirements

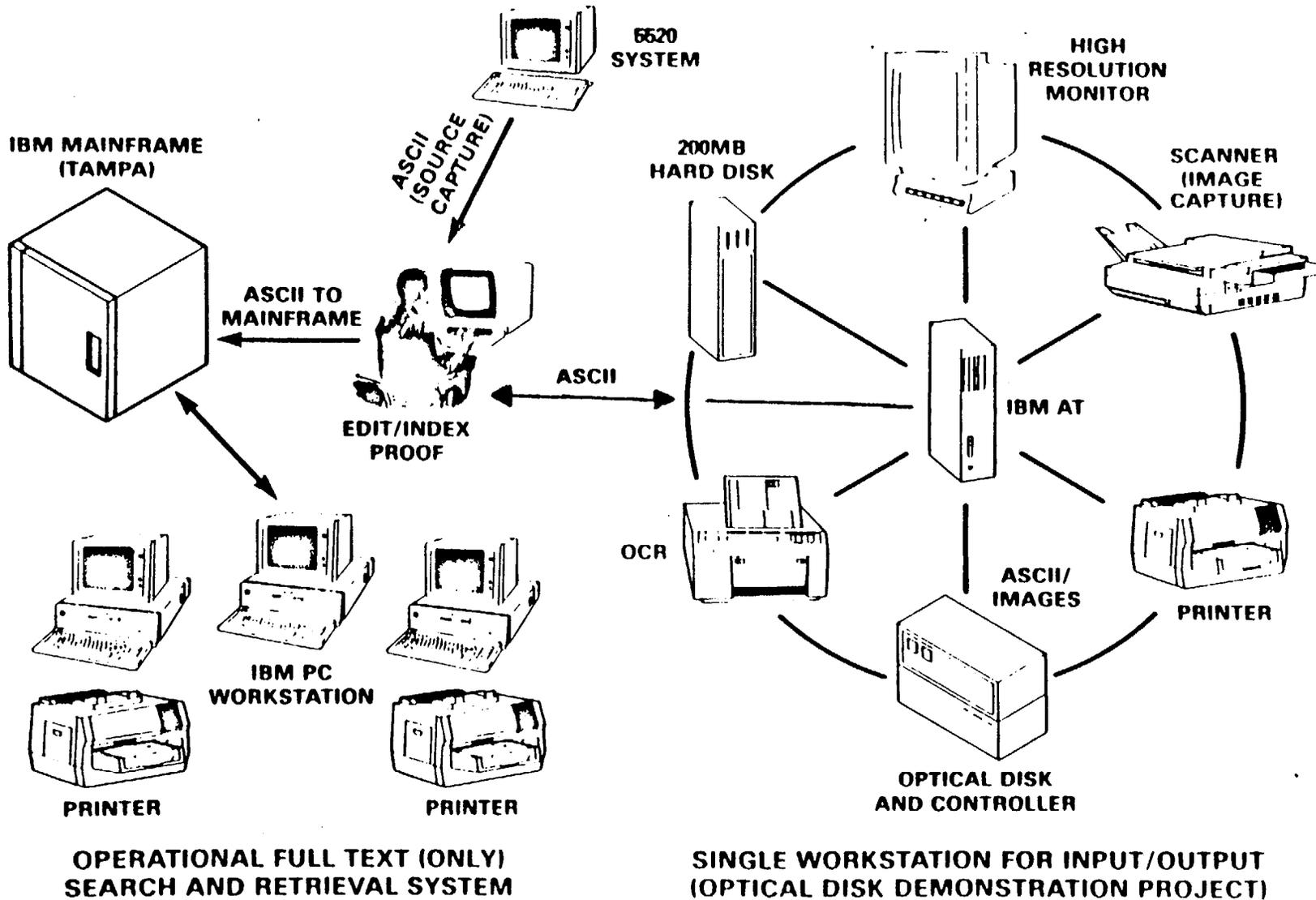
SYSTEM DESCRIPTION

- Integrated Hardware/Software System to Capture, Store and Retrieve Documents
- Thousands of Documents Converted to a Medium Which Enables Fast and Easy Access to Information
 - Surrogate Search
 - Content Search
 - Image or ASCII Retrieval

MAJOR SYSTEM DESIGN REQUIREMENTS

- Retrievability
- Completeness
- Unitary Design
- Full Nature and Scope to Be Determined
by Negotiated Rulemaking

TRANSITIONAL LICENSING SUPPORT SYSTEM: MAINFRAME AND MICROCOMPUTER BASED OPERATION



NRC TLSS AS OF TODAY

- Full Text Search/Retrieval - Operational
 - 2000 HLW Documents
 - 900 Congressional Q's and A's
 - 10 CFR 60
 - Access to Database
 - Local PC's
 - Remote (With Modem)
 - "Real Time" Capture and Retrieval
- Image Capture and Retrieval - Starts March 1987
- Prototype of Image/Text Optical Disk System Is Being Demonstrated

THE PROCESS

SCAN

Paper Files, Handwritten Notes, Pictures

STORE

On Secure Optical Disk

INDEX

Image Files, Full ASCII Text

RETRIEVE

Random Access

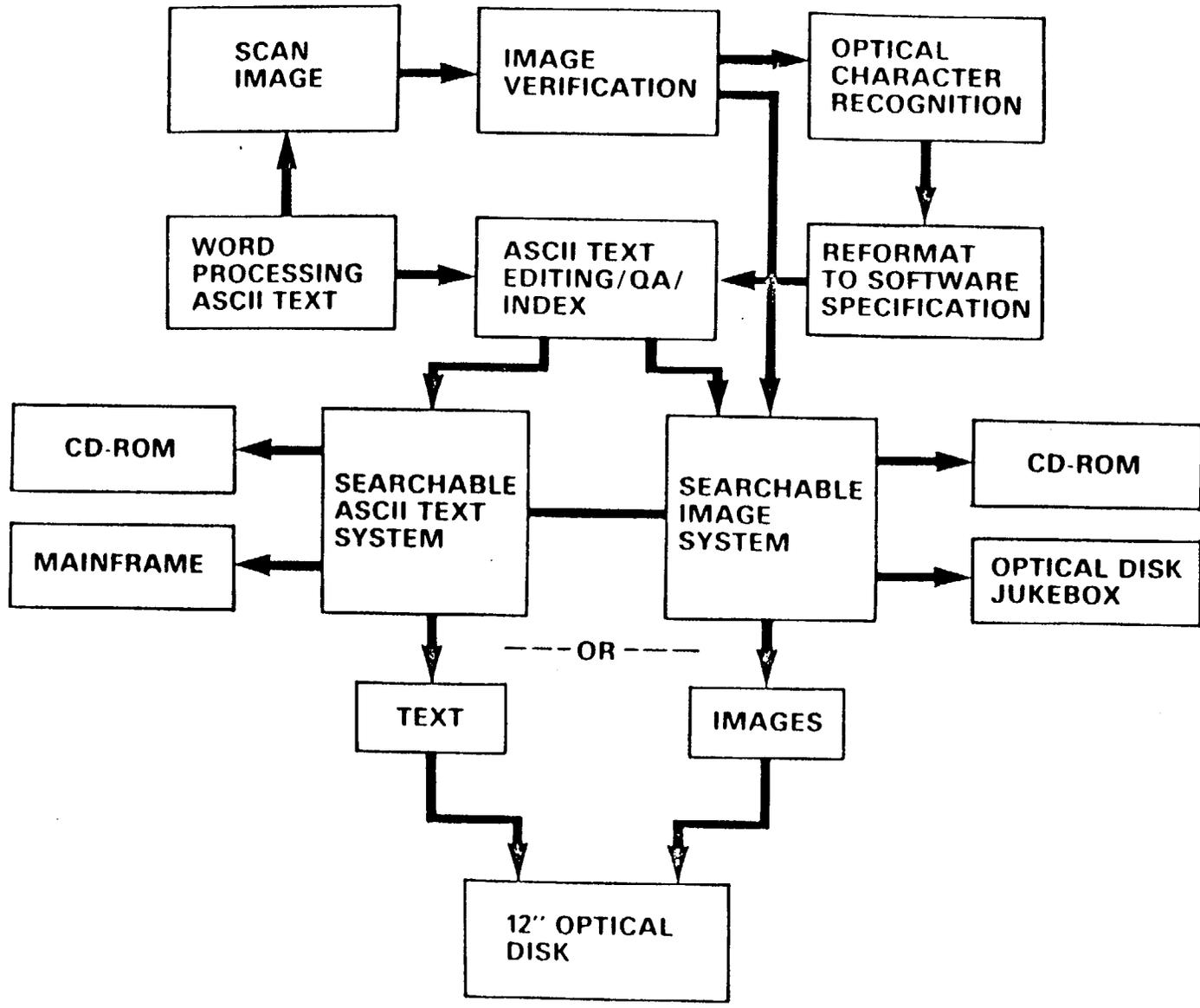
BROWSE

- On Screen
- Multiple Windows

PRINT

On Demand at Each Workstation

TEXT AND IMAGE CAPTURE PROCESS



TECHNICAL CHALLENGES

- Image File Transfer from Scanner to OCR
- Software/Hardware Integration
- Streamlining Database Creation Process

MAJOR SYSTEM COMPONENTS

- Document Entry Workstation
 - Microcomputer/File Server
 - High Resolution Monitor (150 dpi)
 - Scanner (2.5 sec/page)
 - OCR (1 min/2000 char. page)
 - Printer (8 ppm)
 - Optical Disk (1.5 gb/side)
 - Hard Disk (200 MG)

- User Access Workstation
 - Communications (3270)
 - Word Processing
 - Text/Image Retrieval



