

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

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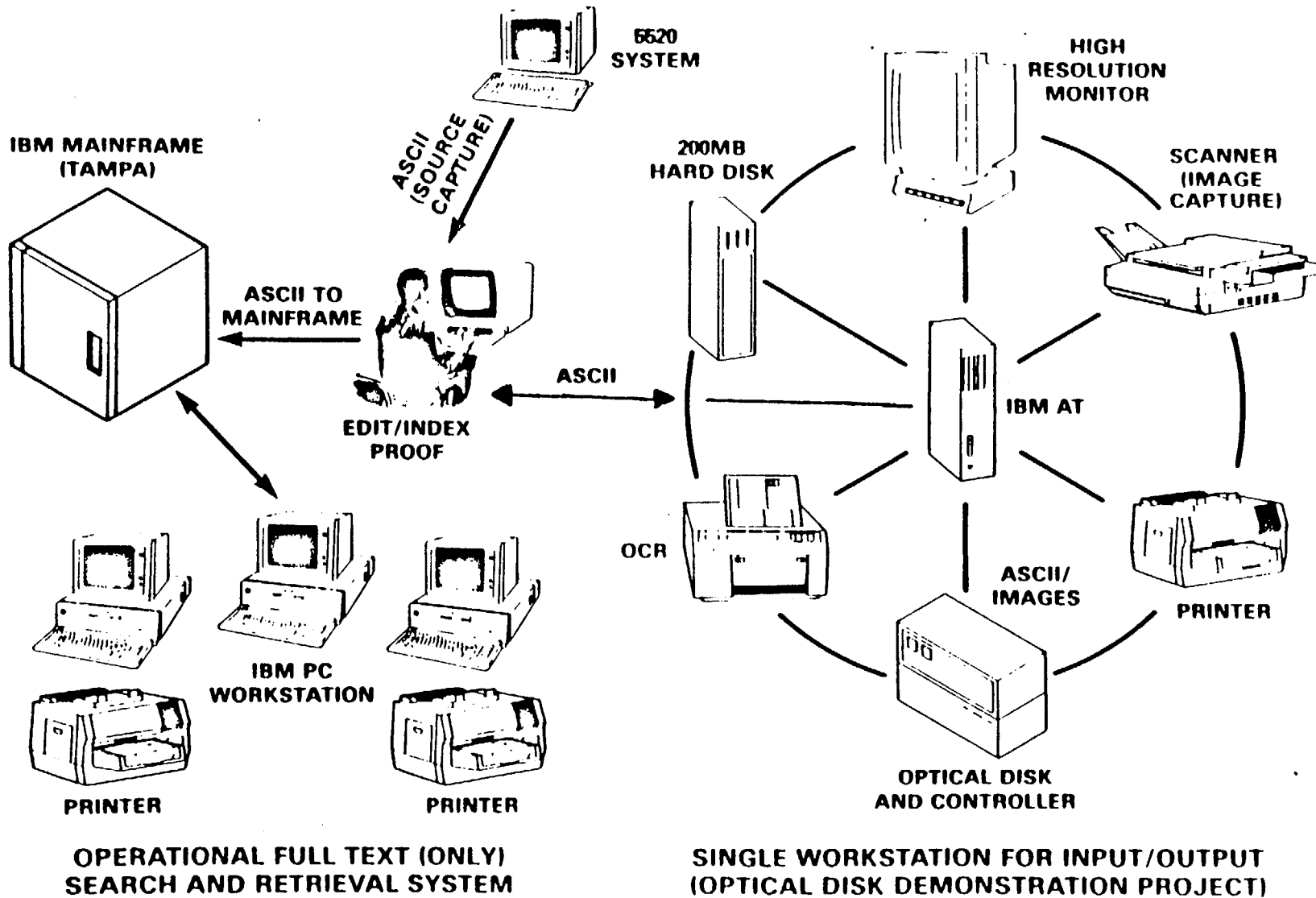
# SYSTEM DESCRIPTION

- 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





Department of Energy  
Washington, DC 20545

RD-4, PG 27

JAN 26 1987

Dr. Richard J. Bell  
Energy Director  
Division of Waste Management, BESC  
U. S. Nuclear Regulatory Commission  
Washington, DC 20545

Dear Mr. Bell:

Subject: Revised DOE/NEC Memoranda of Understanding for URTMOP  
Enclosed for your signature are 2 copies of the revised Memoranda of Understanding between the Department of Energy (DOE) and the Nuclear Regulatory Commission (NRC) for the Uranium Mill Tailings Remedial Action Project. An additional copy from each of these sections is being furnished to you. Please return 1 signed copy for your records and return the other to me.

A summary of revisions to the previously executed Memoranda of

Understanding is attached for your information. The revised Memoranda of Understanding are being furnished to you for your signature. The original Memoranda of Understanding will be furnished to you upon receipt of your signature. The original Memoranda of Understanding will be returned to you upon receipt of your signature. The original Memoranda of Understanding will be returned to you upon receipt of your signature. The original Memoranda of Understanding will be returned to you upon receipt of your signature.

# 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

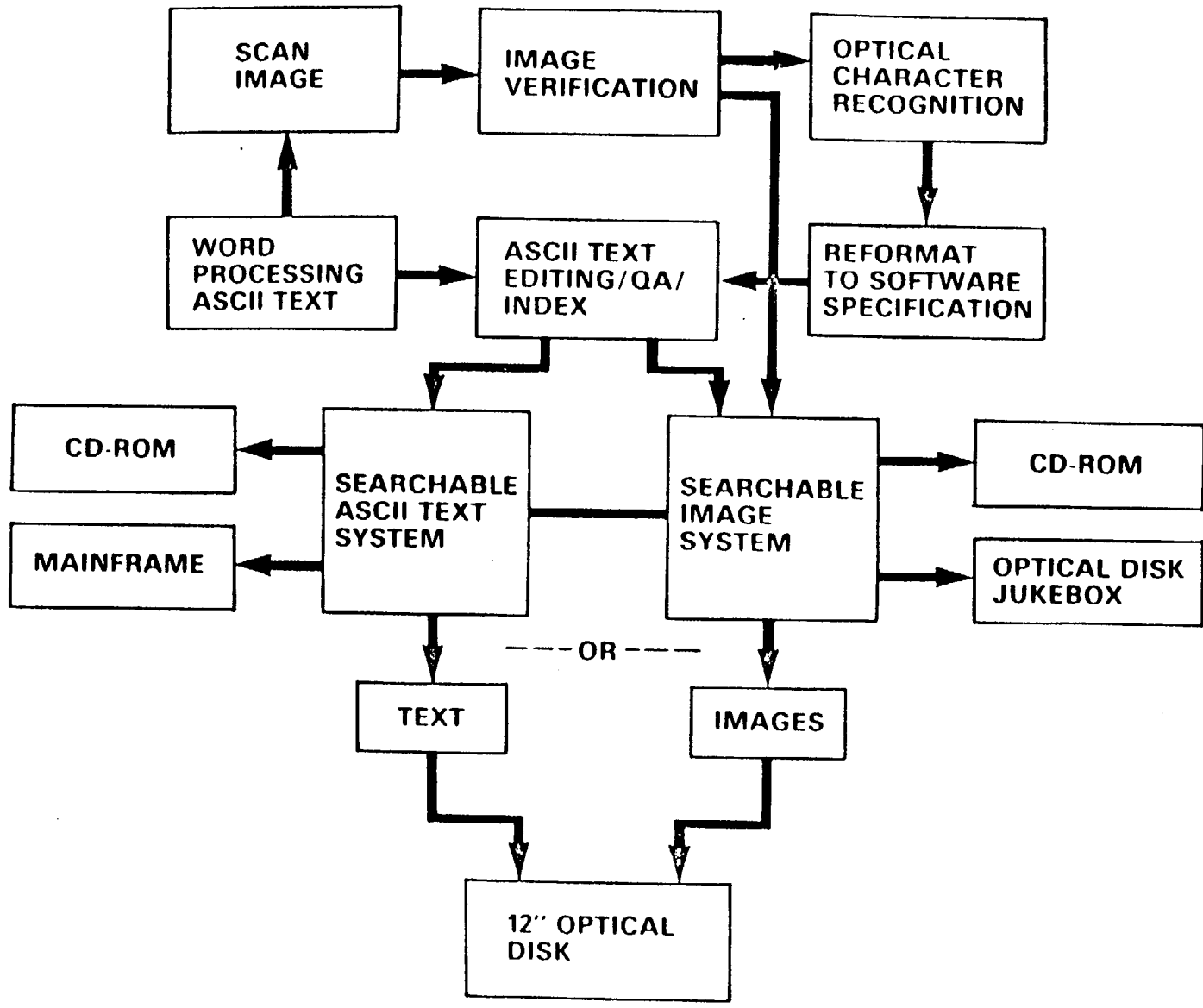
## BROWSE

- 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



