

Federal Technical Reports Preservation Project

GWLA/CRL Task Force Year 1 Report
ASEE Annual Conference and Exposition
June 27, 2007

Taskforce Members

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University of Hawaii, Manoa

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Linda Hall Library

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Kansas State University

Melissa Trevvett
(Liaison)

Center for Research Libraries

Communication to avoid duplication

- The task force has made multiple efforts to insure that our targeted collections are not being duplicated by other entities
- Communication with all agencies is essential
- We want to keep our library colleagues 'in the loop' to enhance the communication

Strategy

Develop collaborative project with CRL to identify, digitize, archive, and provide persistent and unrestricted access to federal technical reports

issued prior to 1975.

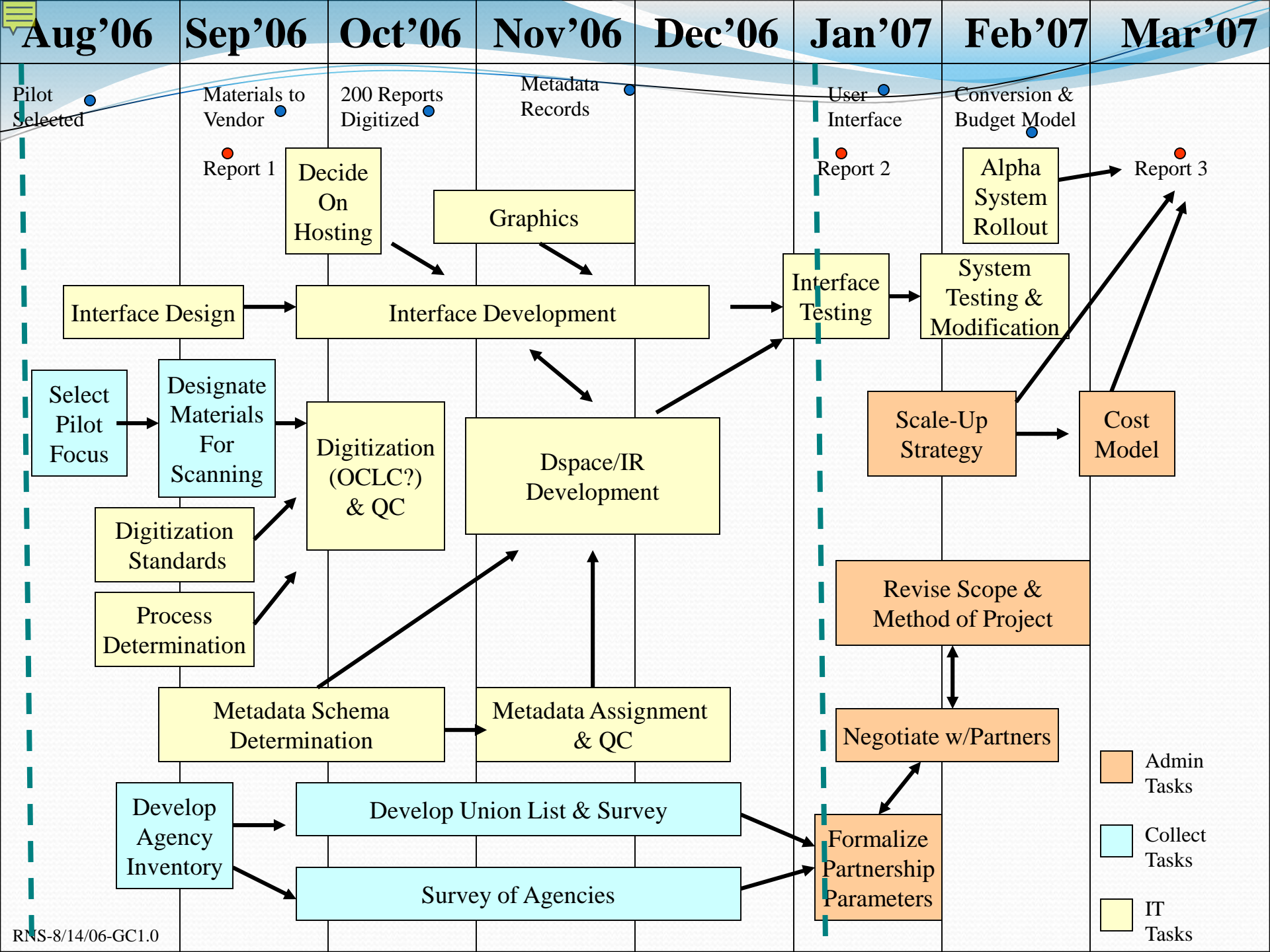


Nature and Scope of Collections

- Federal technical reports literature spans a wide range of technical and scientific topics
- These reports contain important information that is poorly indexed and often difficult to obtain
- The project focused on pre-1975 reports to avoid copyright issues

Taskforce Objectives

- Prototype digital collection (>200 reports)
 - >200 reports
 - GPO digitization specifications
 - Open access/Persistent access
- Cost-model and implementation plan
 - multi-year digital conversion
 - hosting and sustainability of the resultant digital resource
- Stakeholder approval
 - Project implementation
 - Cost models/projections
- Budget & Timeline = \$65,000 & 8 months



Prototype - Collection

- National Bureau of Standards (NBS)
 - Monograph Series
 - Discrete set of reports
 - Highly ranked in pre-project survey
- Atomic Energy Commission (AEC)
 - Division of Biology & Medicine sponsored reports
 - Selected 4 small sections of reports series
 - Heterogeneity for collection testing

Prototype - Technology

- Hosted at University of Hawaii Manoa
 - Pilot website established to demonstrate nature of collection and search interface
 - Open Source Software – built with “Streetprint,” an open access repository system
 - Intuitive interface
 - Backend management functions

Prototype process

- Allowed us to develop/test:
 - File sizes
 - Metadata schema
 - Workflows – collection assembly and distribution
- Shortcomings were discovered and identified
 - i.e. File report number sequence (software)
 - Limitations on advanced search options (software)
 - Page counting estimates (workflow)

Proposed Long-term Structure

- **Preservation focus**

- 2 E-Archival Institutions

- Store archives of TIFF images, no hosting
- Uses a RAID 5 Storage System with spare to ensure no data loss

- **Print Archives**

- Institutions volunteer to be a print archive
- Provided with complete set of documents for preservation
- Metadata (Dublin-core) could be converted to MARC for brief catalog record

Proposed Structure (con't)

- **Access Focus**

- 2 PDF Hosting Institutions
 - Mirror hosting sites providing open access to reports
 - If PDF is corrupted, can request from TIFF archive site

- **Coordination**

- 1 Institution serves as the Collection Coordinator
 - Assembles/prepares collections or works with institutions to prepare collections for vendors
 - Coordinates digitization schedule
 - Quality Control checks

Implementation

- Occurs in phases:

- Years 1-3 Development Phase

- Years 4-6 Building Phase

- Years 7-? Continuation of building phase?*

- Project could continue to preserve additional report series & collections as long as there is funding and value and interest to the user community*

- Years X-Z Sustainability Phase

Digitization

Speed & cost of digitization are variables in the cost models

Phase	Digitization Goal (in pages/phase)
Development (Years 1-3)	1 Million
Building (Years 3-6)	1 Million (slow) ~or~ 3 Million (recommended)
Sustaining (Years X-Z)	No digitization

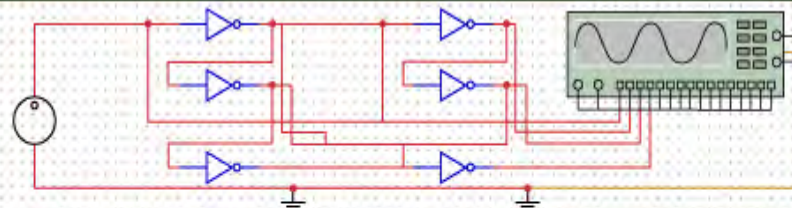
Cost Model Summary

Phase	Digitization Goal (pgs)	Total 3 Year Cost
Development	Minimum (50K)	\$308,500.00
	1 Million	\$958,499.20
Building	1 Million	\$1,001,999.20
	3 Million	\$2,614,000.00
Sustaining	None	\$56,000.00



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Technical Report Archive and Image Library



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WELCOME TO TECHNICAL REPORT ARCHIVE AND IMAGE LIBRARY

TRAIL-Technical Report Archive and Image Library: a collaborative project to digitize, archive, and provide persistent and unrestricted access to federal technical reports issued prior to 1975.

Organizations Involved:

The Greater Western Library Alliance (GWLA - www.gwla.org) and the Center for Research Libraries (CRL - www.crl.edu) are collaborating on a pilot project

KEYWORD SEARCH

Enter your search term(s):

Search

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National Bureau of Standards Electronic Automatic Computer (SEAC)



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Browsing Functionality

- Site allows the user to browse by a variety of criteria
- When browsing by title, you are presented with a thumbnail image of the document cover page
- Selecting one of these images will bring you to the full-image of the technical report

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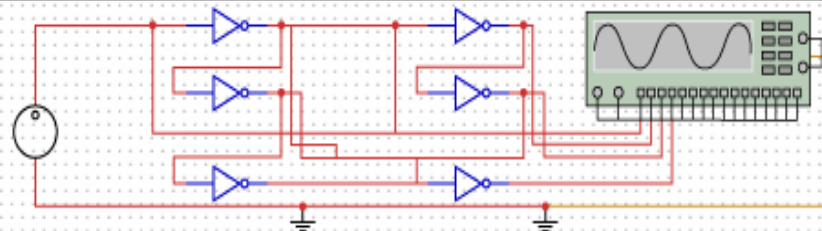
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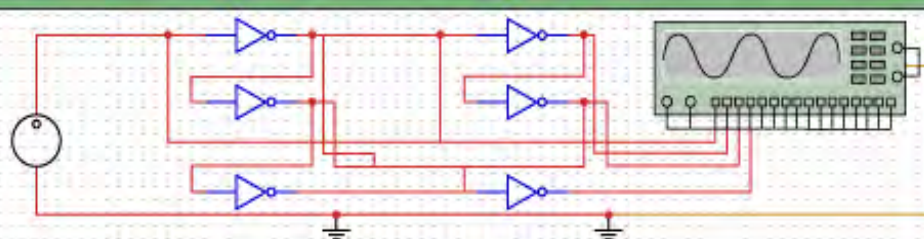
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Halpern, Carl



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Love, Carl H.



[AEC Group Shelter](#)
Holmes and Narver, Inc.



[Aerial Radiological Monitoring System: I. Theoretical Analysis, Design, and Operation of a Revised System](#)
Merian, R.F.



[Aerial Radiological Monitoring System: Part II. Performance, Calibration, and Operational Check-Out of the EG&G ARMS-II Revised System](#)
Hand, J.E.



[Aerial Radiological Monitoring System: Part III. Electronic Processing of ARMS-II Data](#)
Hand, J.E.

DISPLAYING

Reports 1 - 12 of 207 total.

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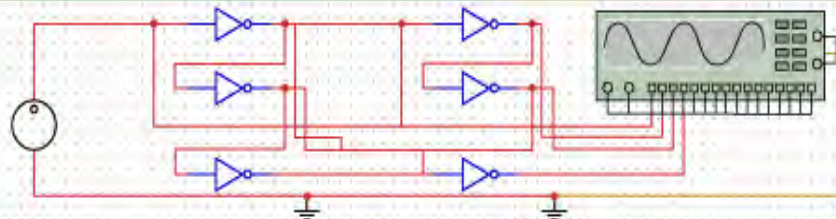
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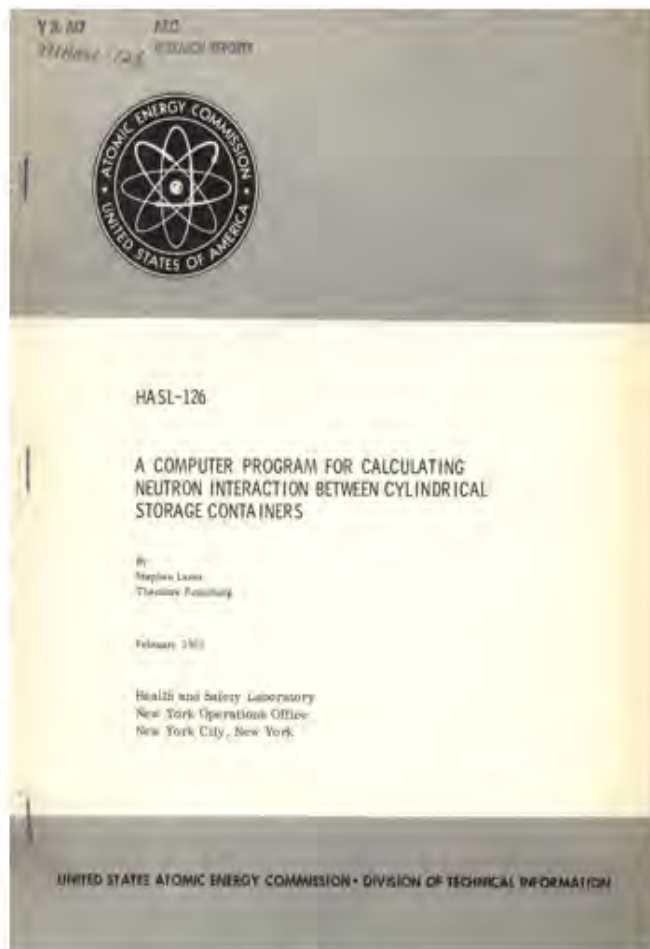
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cover

DETAILS

Title: Computer Program for Calculating Neutron Interaction Between Cylindrical Storage Containers

Author: Lanes, Stephen

Additional Author: Rosenberg, Theodore

Date: 1963-02

Link to Full Report:

<http://digicoll.manoa.hawaii.edu/techreports/PDF/HASL-126.pdf>

Pages in PDF: 44

Document Type: [AEC](#)

Issuing Agency: U.S. Atomic Energy Commission (AEC), Division of Technical Information

Performing Organization: Health and Safety Laboratory

Report Number: HASL-126

SUDOC: Y 3.At 7:22

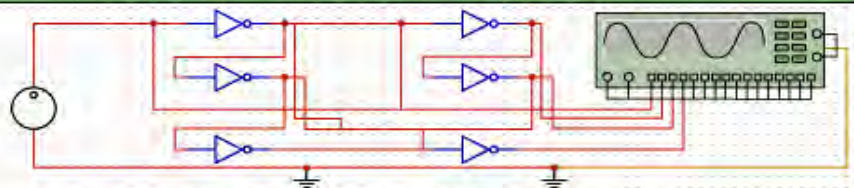
Series: Health and Safety Laboratory (HASL)

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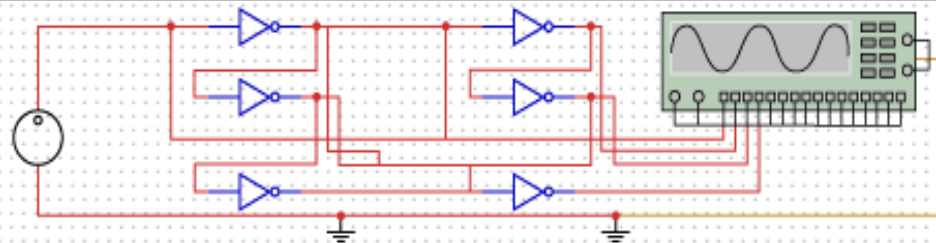
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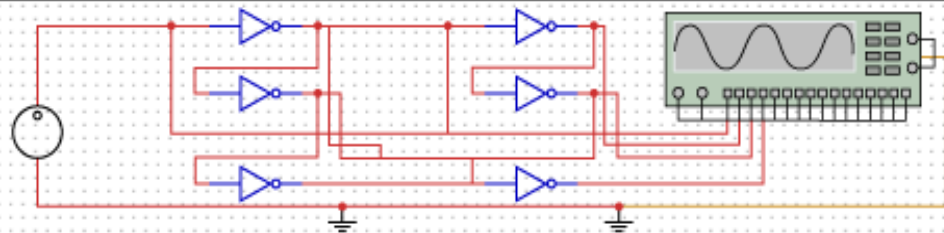
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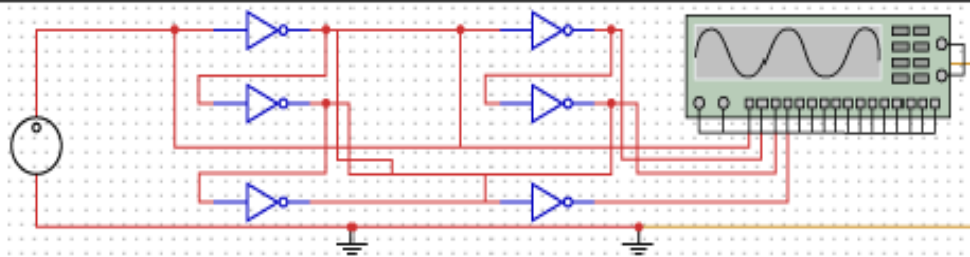
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Search Functionality

- The site utilizes a standard Boolean search interface
- Options for report number and issuing/sponsoring agencies provide access points unique to the technical report literature



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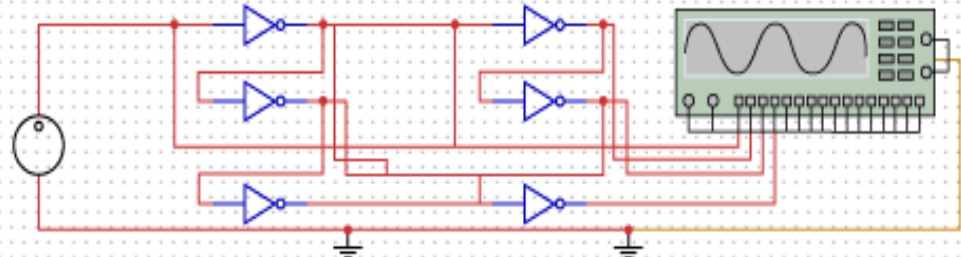
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Title	contains	<input type="text"/>	AND
Author	contains	<input type="text"/>	AND
Report Number	contains	<input type="text"/>	AND
Document Type	contains	<input type="text"/>	AND
Date	contains	<input type="text"/>	AND
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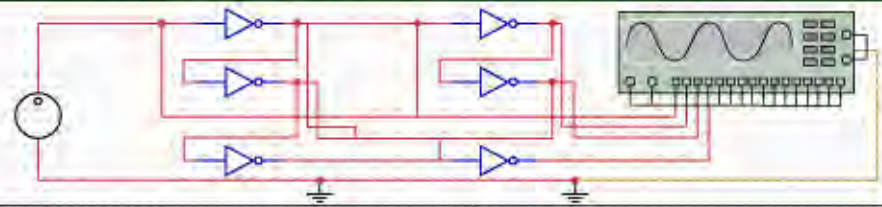
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Document Type	is	NBS	AND
Title	contains	NBS	AND
Title	contains	NIST	AND
Title	contains	EPA	AND
Title	contains	AEC	
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How to get Involved

If your institution might be or definitely is interested in this project, please supply us with contact information (name and e-mail address) for the most appropriate person or persons at your institution to contact about this project in the future.

We very much appreciate your feedback. Please email [Alice Trussell](mailto:alitrus@ksu.edu) at alitrus@ksu.edu

Pilot currently contains the following report series:

NBS Monograph Series—Major contributions to the technical literature on various subjects related to the National Bureau of Standards and published between 1959 and 1982. These detailed reports include materials data, mathematical functions, time series, diffraction patterns, measurements, standards, methods and much more. Most of the data provided is from direct measurements. This series of technical reports is highly referenced with more than 2000 citations found in Web of Science alone. More information can be found at the National Institute of Standards and Technology) web site <http://nist.gov/>.

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STATISTICS:

Total reports in database: 207

Total fulltexts in database: 130

Total images in database: 416

Prototype Demonstration

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