

A new way to retrieve old critical
information

TRAIL

Technical Report
Archive and Image Library

Patricia E. Kirkwood

University of Arkansas

Daureen Neddill

University of Utah

Biological weapons, atomic clock settings, and the effects of atomic testing -- old news that never dies. This is just part of the information that can be gleaned from technical report literature published prior to 1980. The Greater Western Library Alliance (GWLA) in association with the Center for Research Libraries (CRL) is digitizing important report series from this literature. A database has been developed that includes important Atomic Energy Commission (AEC) reports as well as the National Bureau of Standards (NBS) monograph series. We will continue to add report series during the next few years. TRAIL will become an excellent resource for both historical data as well as current access to the grey literature of science -- technical reports. This project will not only improve the access to technical reports and insure preservation (upon approval from appropriate governmental institutions), it will enable libraries to repurpose the space presently being used to house large paper, microfiche and microcard collections.



Photo used with permission - http://www.roscoeg.net/Atomic_Bomb1.jpg
Company C of the 231 U. S. Army Engineer Combat Battalion at
Yucca Flats, Nevada. Date unknown

The Project

- Greater Western Library Alliance (GWLA – <http://www.gwla.org/>)
- Center for Research Libraries (CRL – <http://www.crl.edu/>)
- A pilot project to ascertain both the practicality of and impediments to digitizing and making openly available selected (primarily) pre-1975 U.S. government agency technical reports.
- A task force, established in 2006, has selected parameters to avoid duplication of the digitization efforts that have been undertaken by federal agencies.
- Task force members are contacting and endeavoring to work closely and cooperatively with the agencies whose publications are being considered for digitization.

The People

The GWLA Federal Technical Reports Task Force

Maliaca Oxnam, Chair (University of Arizona)

Tim Byrne (University of Colorado)

Mel DeSart (University of Washington)

Patricia Kirkwood (University of Arkansas)

Daureen Neddill (University of Utah)

John Saylor (Cornell University)

Bob Schwarzwald (University of Hawaii)

Donna Swischer (Linda Hall Library)

Melissa Trevvett, liaison (Center for Research Libraries)

Alice Trussell (Kansas State University)

The site

<http://digicoll.manoa.hawaii.edu/techreports/index.php>

TRAIL

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.

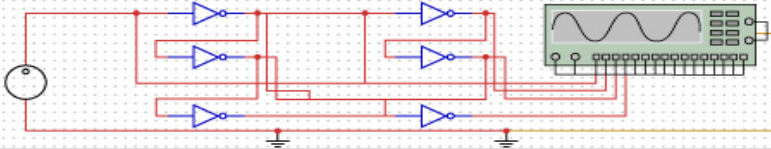

Organizations Involved:
The Greater Western Library Alliance (GWLA - www.gwla.org) and the Center for Research Libraries (CRL - www.crl.edu) are collaborating on a pilot project

KEYWORD SEARCH



Enter your search term(s):

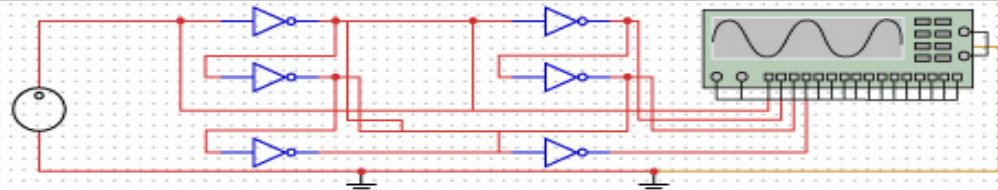
[\[advanced search\]](#)

National Bureau of Standards Electronic Automatic Computer (SEAC)



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ADVANCED SEARCH

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Title	contains		AND
Title	contains		AND
Title	contains		AND
Author	contains		AND
Report Number	contains		
Document Type			
Date			
Issuing Agency			
Search	[basic search]		

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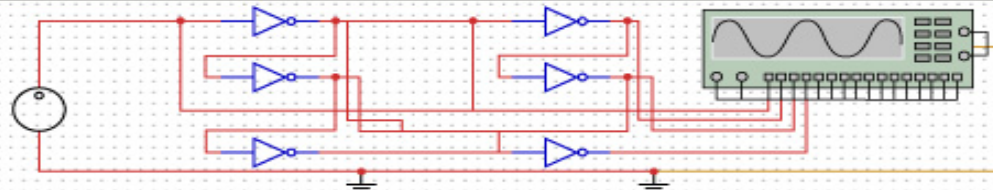
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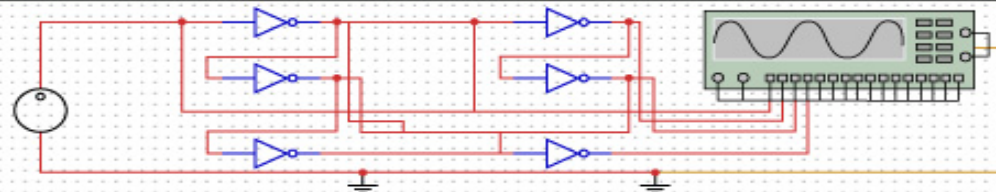
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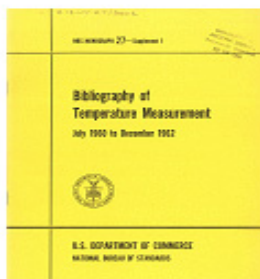
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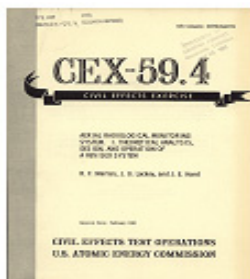
[Bibliography of Temperature Measurement: July 1960 to December 1962](#)
Halpern, Carl



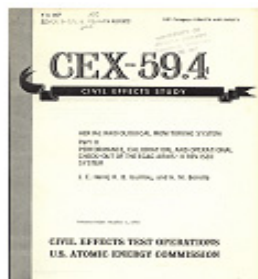
[ABSCISSAS AND WEIGHTS FOR GAUSSIAN QUADRATURE FOR N = 2 to 100, and N = 125, 150, 175, and 200](#)
Love, Carl H.



[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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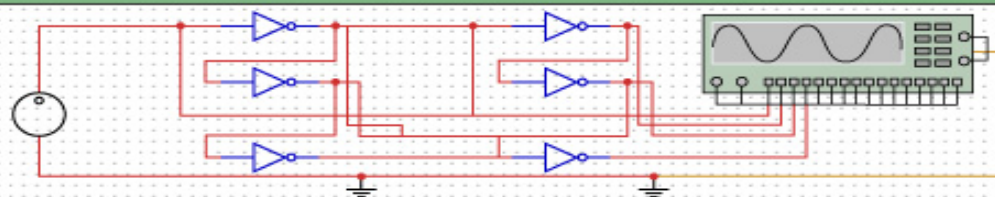
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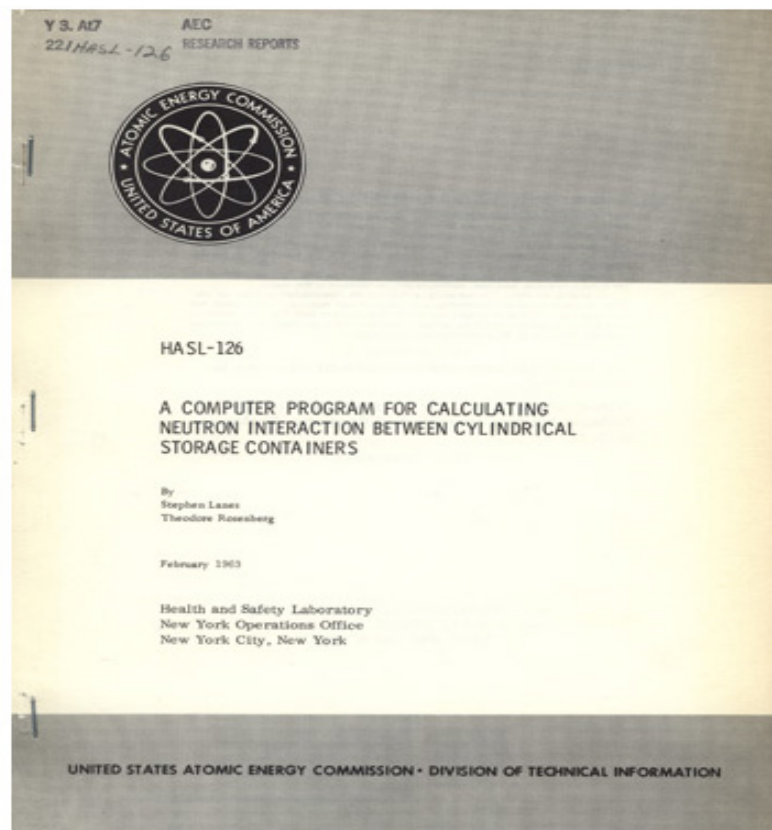
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DETAILS

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

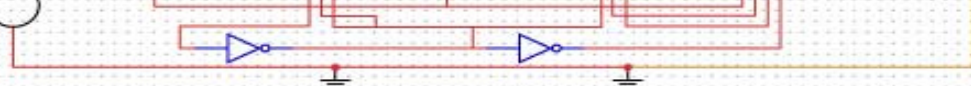
Report Number: HASL-126

SUDOC: Y 3.At 7:22

Series: Health and Safety Laboratory (HASL)

Abstract:

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TECHNICAL REPORT ARCHIVE AND IMAGE LIBRARY

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:Alice.Trussell@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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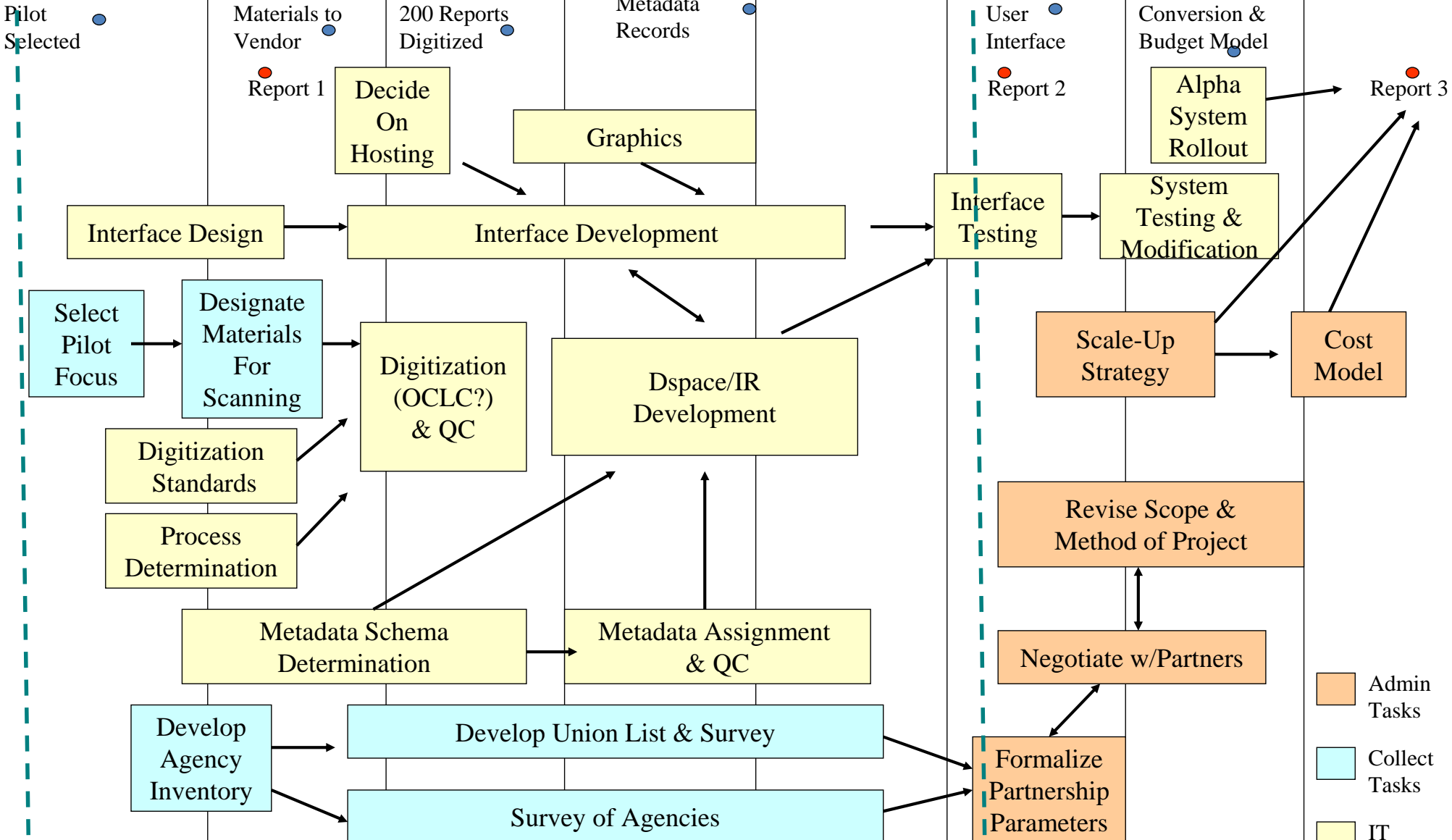
STATISTICS:

Total reports in database: 207

Total fulltexts in database: 130

Total images in database: 416

Aug'06 Sep'06 Oct'06 Nov'06 Dec'06 Jan'07 Feb'07 Mar'07



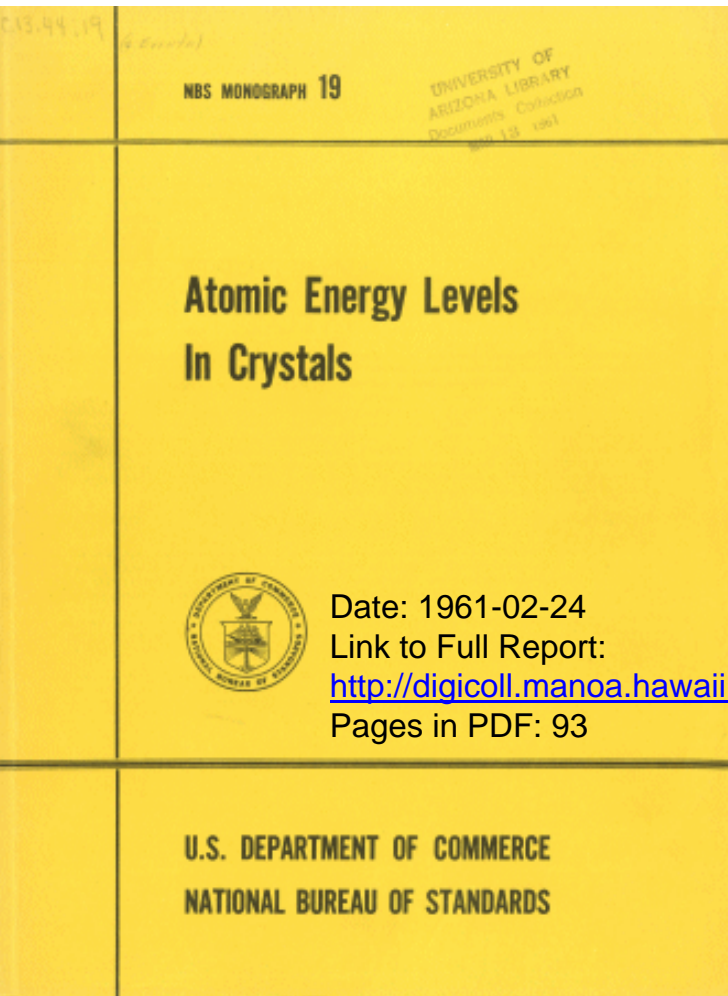
- Admin Tasks
- Collect Tasks
- IT Tasks

Cost Model Summary

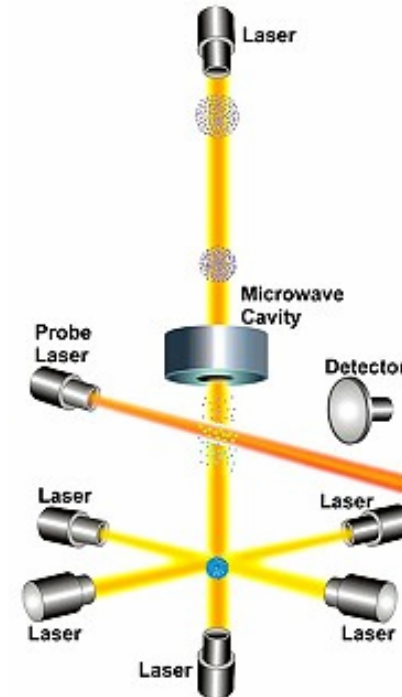
Phase	Digitization Goal (pgs)	Total 3 Year Cost
Development	Minimum (50K)	\$308,500.00
	1 Million	\$958,499.20
Building	1 Million	\$1,001,999.20
	3 Million	\$2,614,000.00
Sustaining	None	\$56,000.00



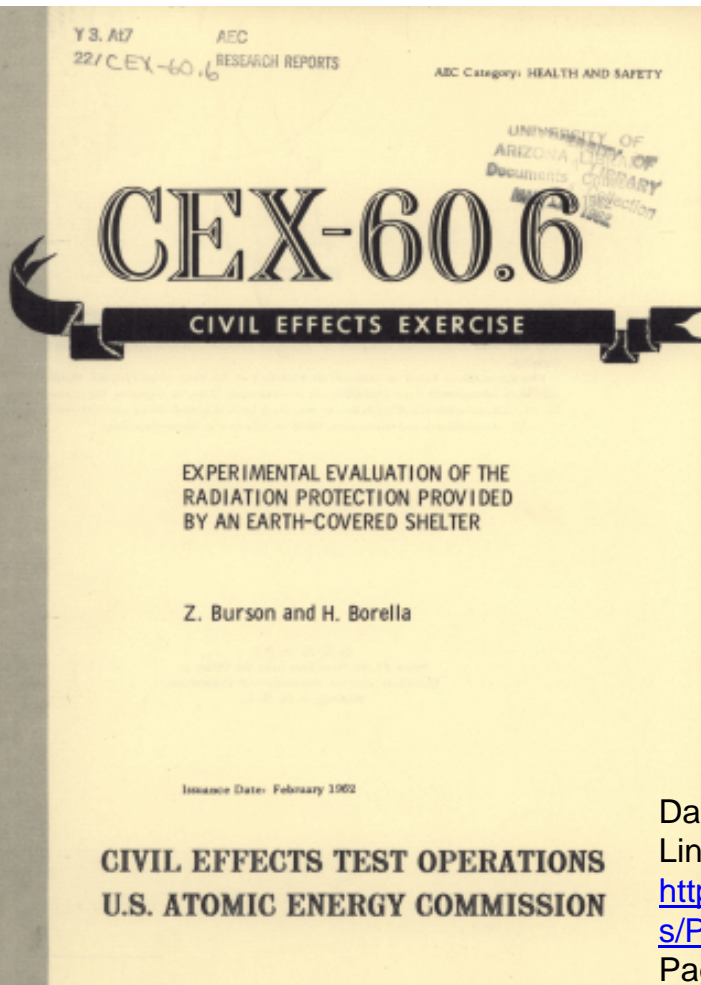
Old data can inform new research



Lasers are a key ingredient of atomic clocks-- both the ordinary and entangled variety.



Old data -- new uses?



Evacuation versus shelter protection factors

[Martin, J.A., Jr.](#) (US Nucl. Regulatory Commission, Washington, DC, USA)

Source: *Transactions of the American Nuclear Society*, v 61, 1990, 44-5

ISSN: 0003-018X **CODEN:** TANSAO

Conference: 1990 Annual Meeting of the American Nuclear Society (papers in summary form only received), 10-14 June 1990, Nashville, TN, USA

Country of publication: USA

Abstract: According to a US Nuclear Regulatory Commission staff training manual, in the event of a general emergency, the immediate evacuation of areas in the near vicinity [~3 to 5 km (~2 to 3 miles)] of an operating nuclear power plant would be warranted, preferably as a precautionary measure before major containment failure, if any. A general emergency should be keyed primarily to core-melt accident sequences, so it is highly unlikely. Nevertheless, should such a situation ever arise, there exists the possibility that people could be evacuating when, for whatever reason, the containment structure could be breached and evacuees could then be overtaken by a large, puff release. The question arises: would the early evacuees be better off being inside a **shelter**, rather than outside traveling in the plume? This paper sheds some light on this question and provides some important scoping answers (4 refs.)

Inspec controlled terms: [accidents](#) - [fission reactor safety](#) - [radiation protection](#) - [safety](#)

Classification Code: [A2844](#) Fission reactor protection systems, safety and accidents - [A2880F](#) Radiation monitoring and radiation protection in nuclear engineering

Date: 1962-02

Link to Full Report:

<http://digicoll.manoa.hawaii.edu/techreports/PDF/CEX-60.6.pdf>

Pages in PDF: 48