

TRAIL Microcard Update

Mark Phillips

UNT Libraries

May 25, 2022

UNT Team



Mark Phillips



Hannah Tarver
(Metadata
Metadata
Metadata)



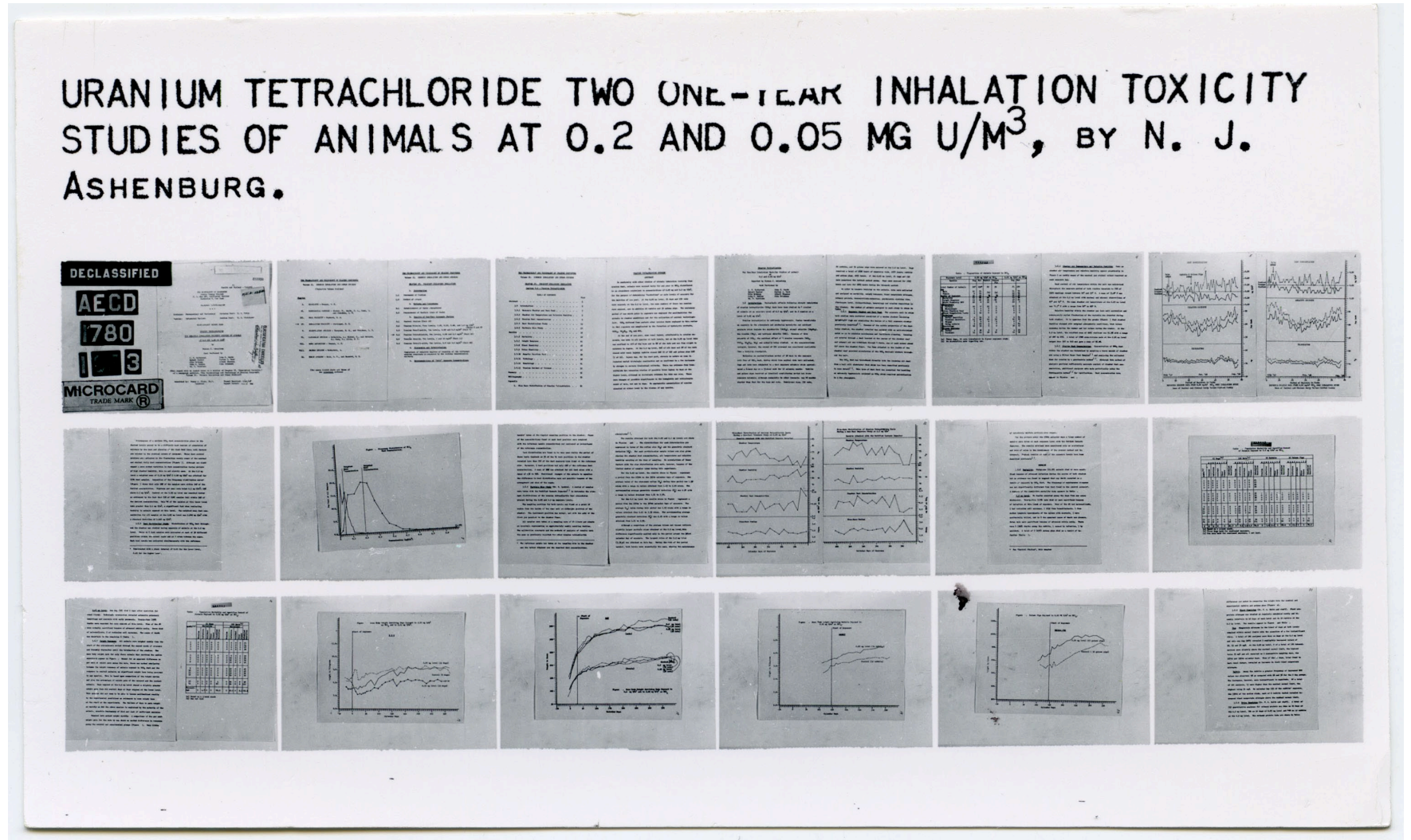
Morgan Milburn
TRAIL Graduate Student
(Makes everything come
together)



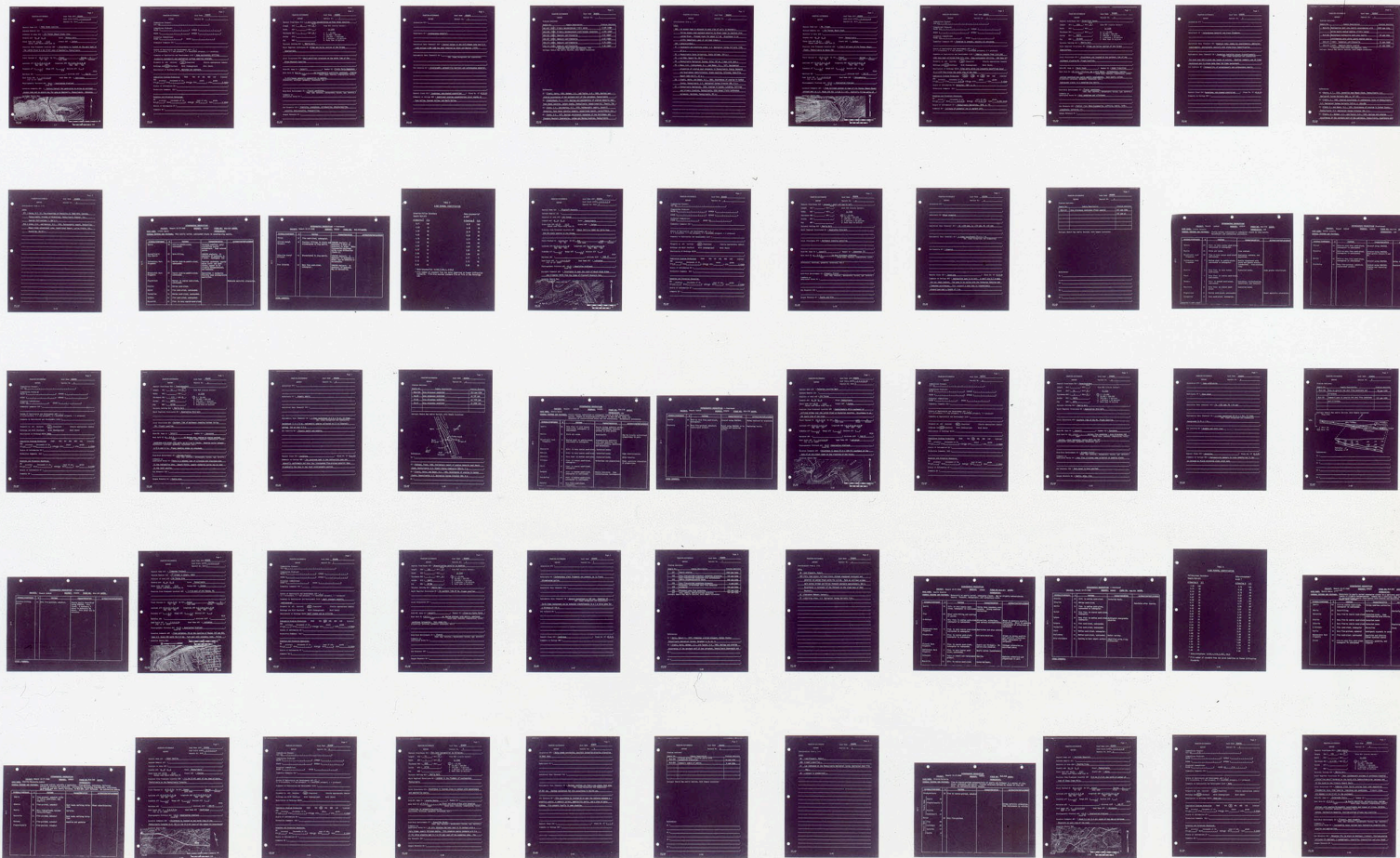
Candice Thornton
TRAIL Imaging Student
(Scan, Scan, Scan)

URANIUM TETRACHLORIDE TWO ONE-YEAR INHALATION TOXICITY STUDIES OF ANIMALS AT 0.2 AND 0.05 MG U/M³, BY N. J. ASHENBURG.

Microcard



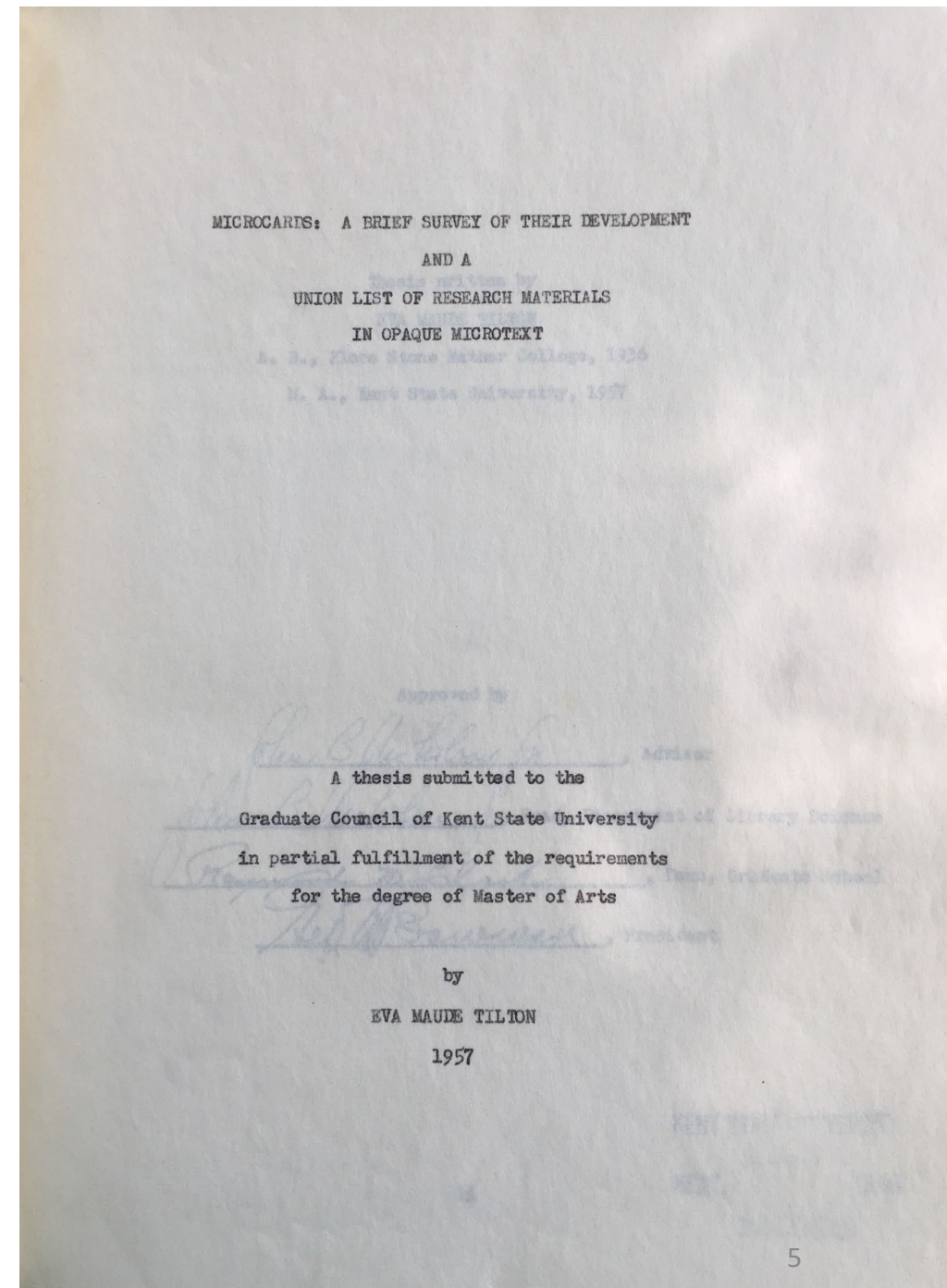
C



Not to be
confused
with
microfiche

Microcard Characteristics

- Opaque microformat
- Image printed photographically on 3x5 inch paper
- Started in the 1940's and reached height in the 1950's
- By the 1960's it had been replaced by microfiche which was a superior format.
- While 3x5 is the US standard, some vendors (READEX) used 6x9 cards.
- Card sizes also differed in Europe



TRAIL Interest in Microcard

- Early publications from Atomic Energy Commission distributed on microcard
- Collection not well cataloged, usually because of the format
- Microcard is a small small small subset of library microformat collections with the bulk going to microfiche and microfilm
- Readers and digitization systems are challenging to maintain for patrons
- Microcard collections of technical reports were not widely distributed.

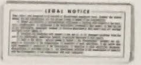
Challenges of Microcard

- Cards are opaque (micro opaque cards), you can't shine light through it.
- Vendors have expensive, highly customized machines for transmissive film-based formats (microfiche).
- Most vendors haven't ever seen a Microcard
- Unknown image quality present on Microcards, "how much information can we actually resolve"
- Vendors generally have to customize or build a scanner for scanning these.
- How much do they cost? Vendor quotes by image vs per card.

CONF-187-1 A FACILITY FOR THE PRODUCTION OF Pu^{238} . R. N. TETZLAFF (DU PONT DE NEMOURS (E. I.) & Co. SAVANNAH RIVER LAB., AIKEN, S. C.). [JULY 1963]. CONTRACT AT(07-2)-1. 16P. UC-4

UNCLASSIFIED
CONF
187
1
1 OF 1

DTIC
MICROCARD
ISSUANCE
DATE
10/18
1963



CONFIDENTIAL - SECURITY INFORMATION

1. The purpose of this report is to describe the design and construction of a facility for the production of Pu^{238} at the Savannah River Laboratory. The facility is designed to produce Pu^{238} from U^{238} and LiF in a molten salt reactor (MSR) system. The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. The fuel is a mixture of U^{238} and LiF in a molten salt. The reactor is operated at a temperature of approximately 700°C. The Pu^{238} is produced in the form of a molten salt solution. The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. The facility is located at the Savannah River Laboratory, Aiken, South Carolina. The facility is a part of the contract AT(07-2)-1, UC-4.

2. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

3. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

4. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

5. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

6. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

7. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

8. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

9. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

10. The design of the facility is based on the following principles: (a) The reactor is a closed cycle, gas-cooled, graphite-moderated reactor. (b) The fuel is a mixture of U^{238} and LiF in a molten salt. (c) The reactor is operated at a temperature of approximately 700°C. (d) The Pu^{238} is produced in the form of a molten salt solution. (e) The facility is designed to produce Pu^{238} at a rate of approximately 100 g/day. (f) The facility is located at the Savannah River Laboratory, Aiken, South Carolina. (g) The facility is a part of the contract AT(07-2)-1, UC-4.

END

CONF-186-3 ELASTIC SCATTERING OF ATOMS AND MOLECULES IN THE THERMAL ENERGY RANGE. FINAL REPORT.

RICHARD B. BERNSTEIN (MICHIGAN. UNIV., ANN ARBOR AND WISCONSIN. UNIV., MADISON). [1963]. CONTRACT [AT(11-1)-321]. 33P. UC-4

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CONF
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1 OF 2

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DATE
12/13
1963

CONF-186-3
Final Report of the Contract AT(11-1)-321
Elastic Scattering of Atoms and Molecules in the Thermal Energy Range
Richard B. Bernstein
Michigan State University
East Lansing, Michigan, U.S.A.

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3. EXPERIMENTAL RESULTS
4. DISCUSSION
5. CONCLUSIONS

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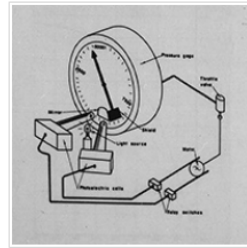
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TRAIL Microcard Collection



About the Digital Collection

Imaged from microcard, these technical reports describe research performed for U.S. government agencies from the 1930s to the 1960s. The reports were provided by the Technical Report Archive and Image Library (TRAIL).

Related Materials

These reports are also available in the [Technical Report Archive and Image Library \(TRAIL\)](#) along with more reports from TRAIL.

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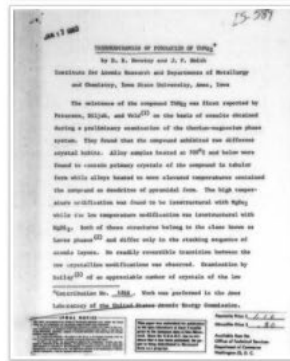
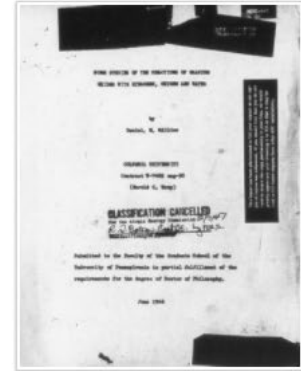
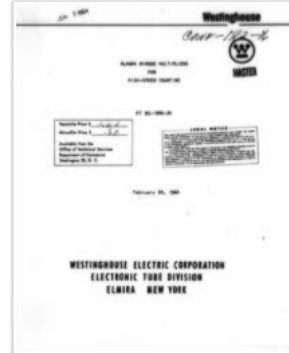
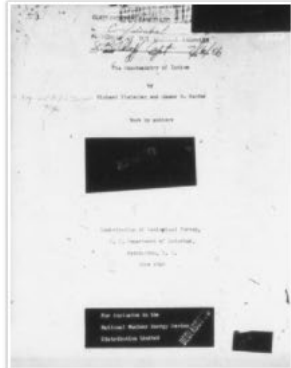
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At a Glance

2,495 Items	2 Types	122 Titles
1 Partner	4 Decades	1 Language
19 Counties	17 States	3 Countries
19,817	6 months, 2 weeks ago Collection Created	3 months, 2 weeks ago Last Updated

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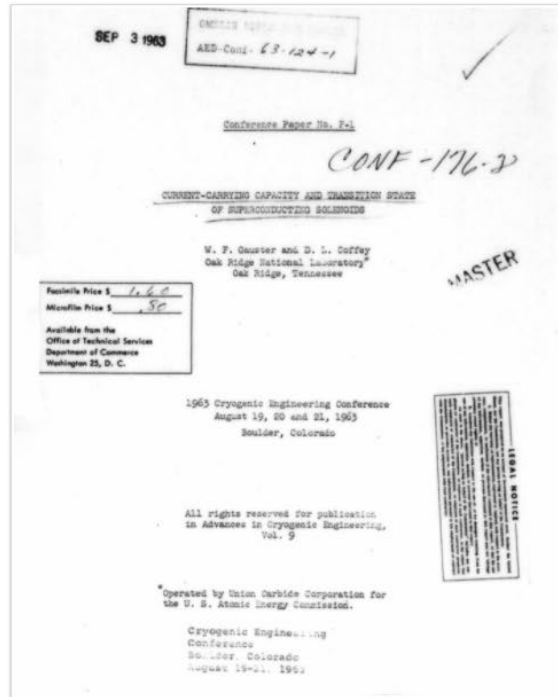
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Current-Carrying Capacity and Transition State of Superconducting Solenoids

 One of 73 reports in the series: [AEC publication CONF](#) available on this site.


Showing 1-4 of 15 pages in this report.

Description

Montgomery and Chandrasekhar and Hulm suggested models for predicting I_m and H_m of high-field superconducting solenoids. Montgomery's model for predicting the degradation effect of superconducting solenoids leads to a unique coil quenching characteristics if geometrically similar solenoids are considered. Experiments do not verify these predicted results. Chandrasekhar and Hulm's model leads to one unique coil quenching characteristic for all solenoids with identical wire type and turn distance; coils with identical load factor should display identical values i_m and H_m . An analysis of the surface currents in an ideal superconducting infinitely long solenoid demonstrated possible forms of shielding currents. Experiments with ... [continued below](#)

Physical Description

15 pages ; illustrations.

Creation Information

Gauster, W. F. & Coffey, D. L. September 3, 1963.

Context

This [report](#) is part of the collection entitled: [Technical Report Archive and Image Library](#) and [one other](#) and was provided by [UNT Libraries Government Documents Department](#) to [UNT Digital Library](#), a digital repository hosted by the [UNT Libraries](#). More information about this report can be viewed below.



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Current-Carrying Capacity and Transition State of Superconducting Solenoids **Page: 3**

[View a full description of this report.](#)


3

induced in the solenoid ("diamagnetic" or "shielding" current), and the "short sample quenching current" I_c at the critical field value H_m .

For the shielding current I_d in a wire of radius r , Montgomery assumes

$$I_d(H) = \frac{\pi r^2}{F'(\alpha, \beta)} H = f(\alpha, \beta) H \quad (4)$$

(ref. 2, Eq. (2)), whereas Chandrasekhar and Hulm's assumption is

$$I_d(H) = KG(H)H \quad (5)$$

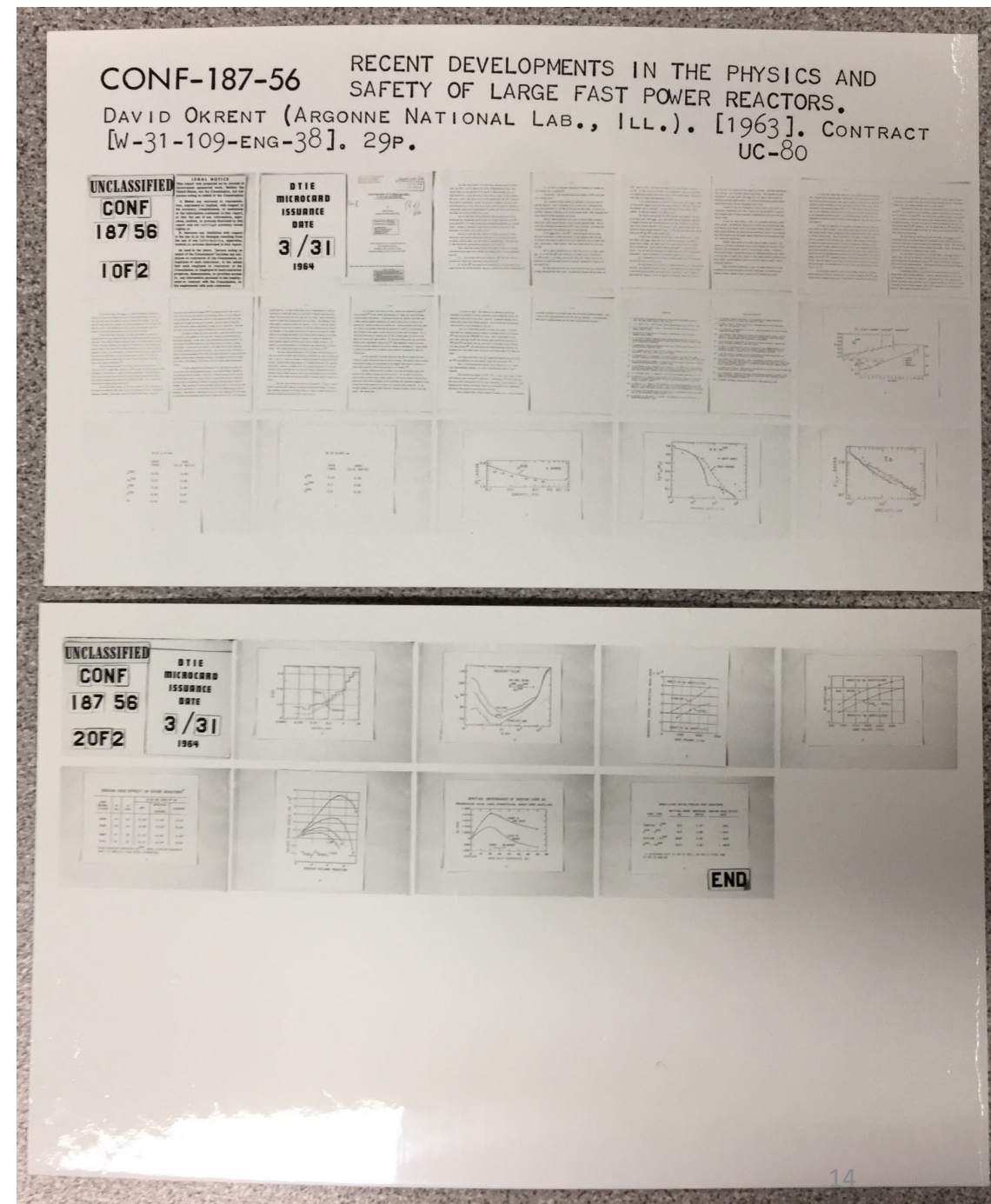
(ref. 3, Eq. (1)). The term $G(H)$ varies monotonically from unity at low fields to zero at high fields, reflecting the shape of the magnetization curve for a hard superconductor (Fig.(1) of ref. 3), and K is a constant determined by the requirement that at very low fields the flux is completely excluded from the wire. This leads to the value

$$K = \frac{10 d}{4\pi} \quad (6)$$

where d is the distance between two successive turns of one layer. If

Here is what we are doing

- In May 2019, TRAIL agreed to allocate \$150,000 to the Microcard Scanning Project
- Arizona has sent > 50,000 Microcards (~36,000 reports) to UNT.
- UNT prepared an RFP because the cost of scanning would be over \$25,000 (based on pilot projects)
- Two steps
 - Digitization of cards– Vendor
 - Local processing of digitized output – UNT
 - Pagination
 - Cropping
 - OCR
 - Loading into UNT Digital Library





May 25, 2022

Microrcard Pallet At UNT



TRAIL - 2022

15

Timeline:

- May 2019 – TRAIL agreed to prioritize Microcard Project
- May 2020 – UNT Received Pallet from Arizona
- May 2020 – UNT Invoiced TRAIL/CRL for \$150,000 for project
- Aug 2021 – UNT RFP process open
- Nov 2021 – Contract with Image Retrieval signed
- Aug 2021 – Vendor completed scanning step project
- May 2022 – UNT has processed 48/140 boxes

Statistics and Costs

- 35 boxes on the pallet
- 140 batches (small boxes)
- 36,217 Reports
- 51,743 Cards

- \$1.75 per card
- \$0.10 per card software license

- \$95,725 for vendor scanning and software license



Split Process

- Image Retrieval
 - Scan cards with in-house developed equipment
 - Single scan 32192x16160 pixels (520 megapixel equivalent)
 - 500 MB per card
- UNT
 - Divide card into pages using Image Retrieval's proprietary software called Liberty.
 - Identifying Targets
 - Pagination
 - Quality Control
 - All the other stuff (described later)



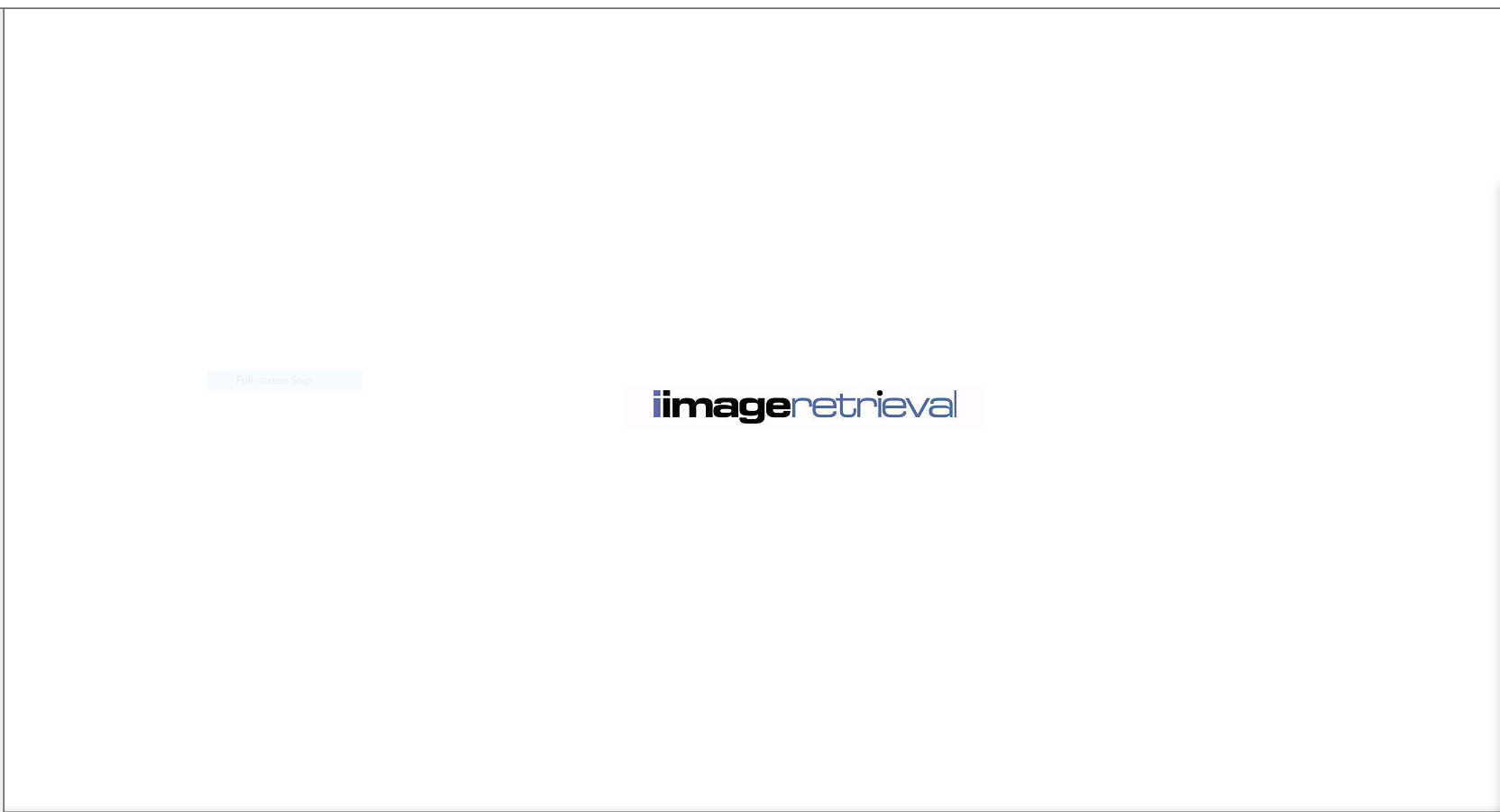
Read F2 Alter Write
Write F3 Alter Read
Highlight F4

Channel Profile Set for Next:
1 F7 2 F8

Production Settings
Input File# : 2
Total Files : 0
Input Path : D:\microcards-in\
Base Path : D:\microcards-ou
Project Name : Project
Batch Name : Batch
Fiche# : 129
SubFiche# : 124
Image# : 2826
 Reset When Folder Chan
 Batch File Name : c:\images\

 Reset Counters Reload Files
Overall This Fiche
Fiche/Hr Fims/Min
 Reset

Definitions
Name
 Page
 TitleBar
Add Copy Delete

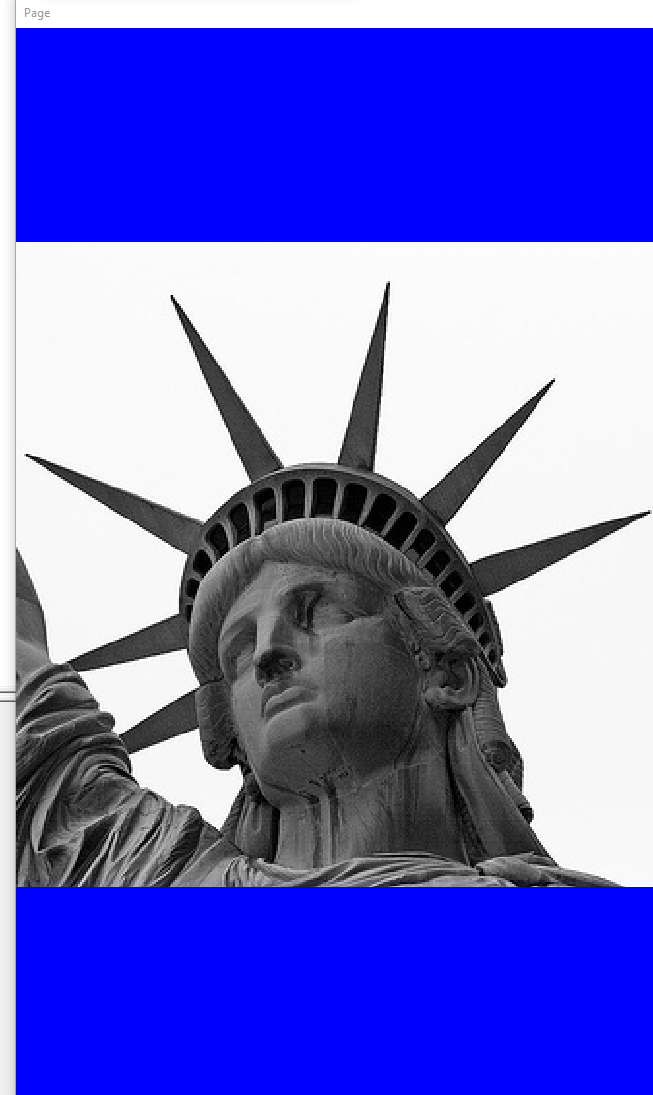


TitleBar Show Image Window Positioning

- Filter : Kernel
 - Power : 1
 - Matrix : 5x5
 - Conditional : width < 5000
- Scale : DPI
 - Percent
 - Fixed
 - DPI
 - X DPI : 50
 - Y DPI : 50
 - Conditional : width < 5000
- Output : TIFF
 - Display Only

Page Show Image Window Positioning

- Filter : Deskew on Text
 - Fill Color : 255
 - Conditional : width < 5000
- Filter : Custom By Ring
 - Power : 28
 - Divisor : 320
 - Matrix : 7x7
 - Ring0 : 32
 - Ring1 : 1
 - Ring2 : -1
 - Ring3 : -1
 - Conditional : width < 5000



Channel Definition

Grid Settings

- Grid Cell Padding : 0
- Grid Cell Width : 5912
- Grid Cell Height : 3520
- Horz Spacing : 200
- Vert Spacing : 112
- Horz Skew : -48
- Vert Skew : 8
- Reset Custom
- Padding : 0
- Cell Split Gap : 20
- Auto
- MidPoint Adjust : 0
- Fixed Row/Col

Camera	Detect Threshold	Black Detect	Offset	Width	Detect Offset	Detect Offset Width	Sync Offset	Title Bar
<input checked="" type="checkbox"/> Camera 1								<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Channel 1			12764	3216				<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Channel 2			20	12400				<input type="checkbox"/>

Channel Profile
1 F7
2 F8

Fiche Preferences Filter Customizat

Read F2 After Write

Write F3 After Read

Highlight F4

Channel Profile Set for Next :

1 F7 2 F8

Production Settings

- Input File# : 2
- Total Files : 1
- Input Path : D:\microcards-in\
- Base Path : D:\microcards-out\
- Project Name : Project
- Batch Name : Batch
- Fiche# : 129
- SubFiche# : 124
- Image# : 2826
- Reset When Folder Chan
- Batch File Name : c:\images\

Reset Counters Reload Files

Overall This Fiche

Fiche/Hr Fms/Min

Reset

Image Definition

Definitions

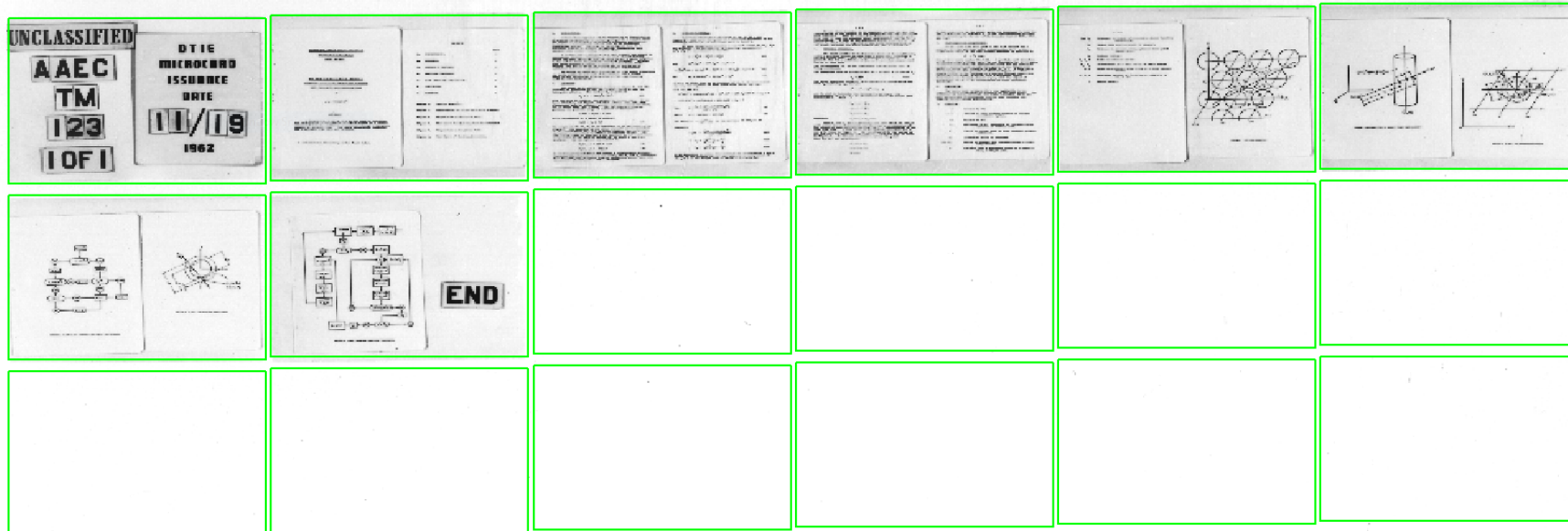
Name

- Page
- TitleBar

Add Copy Delete

metadc1257460_01.tif

AAEC/TM-123 THE TRACKING OF PARTICLES THROUGH A
 HEXAGONAL LATTICE OF HOMOGENEOUS CIRCULAR RODS FOR
 MONTE CARLO APPLICATIONS. J. J. THOMPSON.
 '62 UC-80



Channel Definition

- Grid Settings
- Grid Cell Padding : 0
 - Grid Cell Width : 5000
 - Grid Cell Height : 3200
 - Horz Spacing : 100
 - Vert Spacing : 224
 - Horz Skew : 0
 - Vert Skew : 112
 - Reset Custom
 - Padding : 0
 - Cell Split Gap : 20
 - Auto
 - MidPoint Adjust : 0
 - Fixed Row/Col

Camera	Detect Threshold	Black Detect	Offset	Width	Detect Offset	Detect Width	Sync Offset	Title Offset
<input checked="" type="checkbox"/> Camera 1								<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Channel 1			11506	4400				
<input checked="" type="checkbox"/> Channel 2			20	11104				

Channel Profile

1 F7

2 F8

Set Corners

Fiche Preferences Filter Customizat

Read F2 After Write
 Write F3 After Read
 Highlight F4

Channel Profile Set for Next:
 1 F7 2 F8

Production Settings

- Input File# : 2
- Total Files : 1
- Input Path : D:\microcards-ml
- Base Path : D:\microcards-ou
- Project Name : Project
- Batch Name : Batch
- Fiche# : 129
- SubFiche# : 124
- Image# : 2826
- Reset When Folder Chan
- Batch File Name : c:\images\l

Reset Counters Reload Files

Overall This Fiche
 Fiche/Hr Fms/Min
 Reset

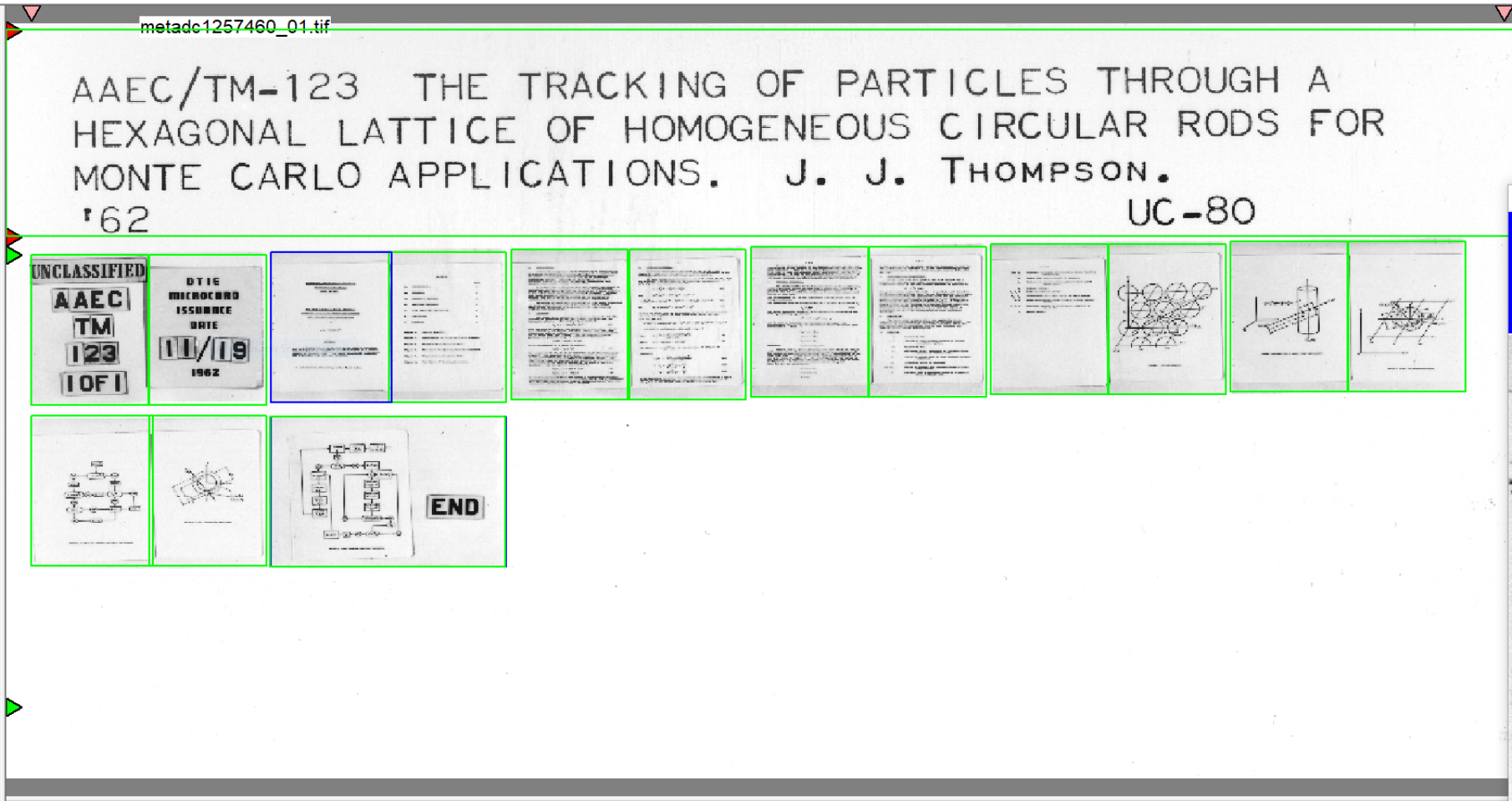
Image Definition

Definitions

Name

- Page
- TitleBar

Add Copy Delete



Channel Definition

Grid Settings

- Grid Cell Padding : 0
- Grid Cell Width : 5000
- Grid Cell Height : 3200
- Horz Spacing : 100
- Vert Spacing : 224
- Horz Skew : 0
- Vert Skew : 112
- Reset Custom
- Padding : 0
- Cell Split Gap : 20
- Auto
- MidPoint Adjust : 0
- Fixed Row/Col

Camera	Detect Threshold	Black Detect	Offset	Width	Detect Offset	Detect Width	Sync Offset	Title Offset	Bar
<input checked="" type="checkbox"/> Camera 1									
<input checked="" type="checkbox"/> Channel 1			11506	4400				<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Channel 2			1488	9632				<input type="checkbox"/>	

Channel Profile

1 F7
 2 F8

Set Corners

Folders

- Desktop
- This PC
- Windows (C:)
- DATA (D:)
 - \$MfeDeepRem
 - 1941
 - 1998-mark
 - code
 - com_fiche_out
 - conferences
 - ffmpeg
 - fritz
 - Google-Drive
 - job_set_1.pgs.PGF
 - junebug-university
 - kevin
 - microcards-in
 - microcards-out
 - metadc1257460_01
 - mizo
 - New folder
 - pan-texas
 - PSAutoRecover
 - refining the new tomographic

Filter Metadata Collections

Content



metadc1257460_01_0001.tif

metadc1257460_01_0002.tif

metadc1257460_01_0003.tif

metadc1257460_01_0004.tif

metadc1257460_01_0005.tif

metadc1257460_01_0006.tif

metadc1257460_01_0007.tif

metadc1257460_01_0008.tif

metadc1257460_01_0009.tif

metadc1257460_01_0010.tif

metadc1257460_01_0011.tif

metadc1257460_01_0012.tif

Preview

Folders

- Desktop
- This PC
- Windows (C:)
 - DATA (D:)
 - \$MfeDeepRem
 - 1941
 - 1998-mark
 - code
 - com_fiche_out
 - conferences
 - ffmpeg
 - fritz
 - Google-Drive
 - job_set_1.pgs.PGF
 - junebug-university
 - kevin
 - microcards-in
 - microcards-out
 - metadc1257460_01
 - mizo
 - New folder
 - pan-texas
 - PSAutoRecover
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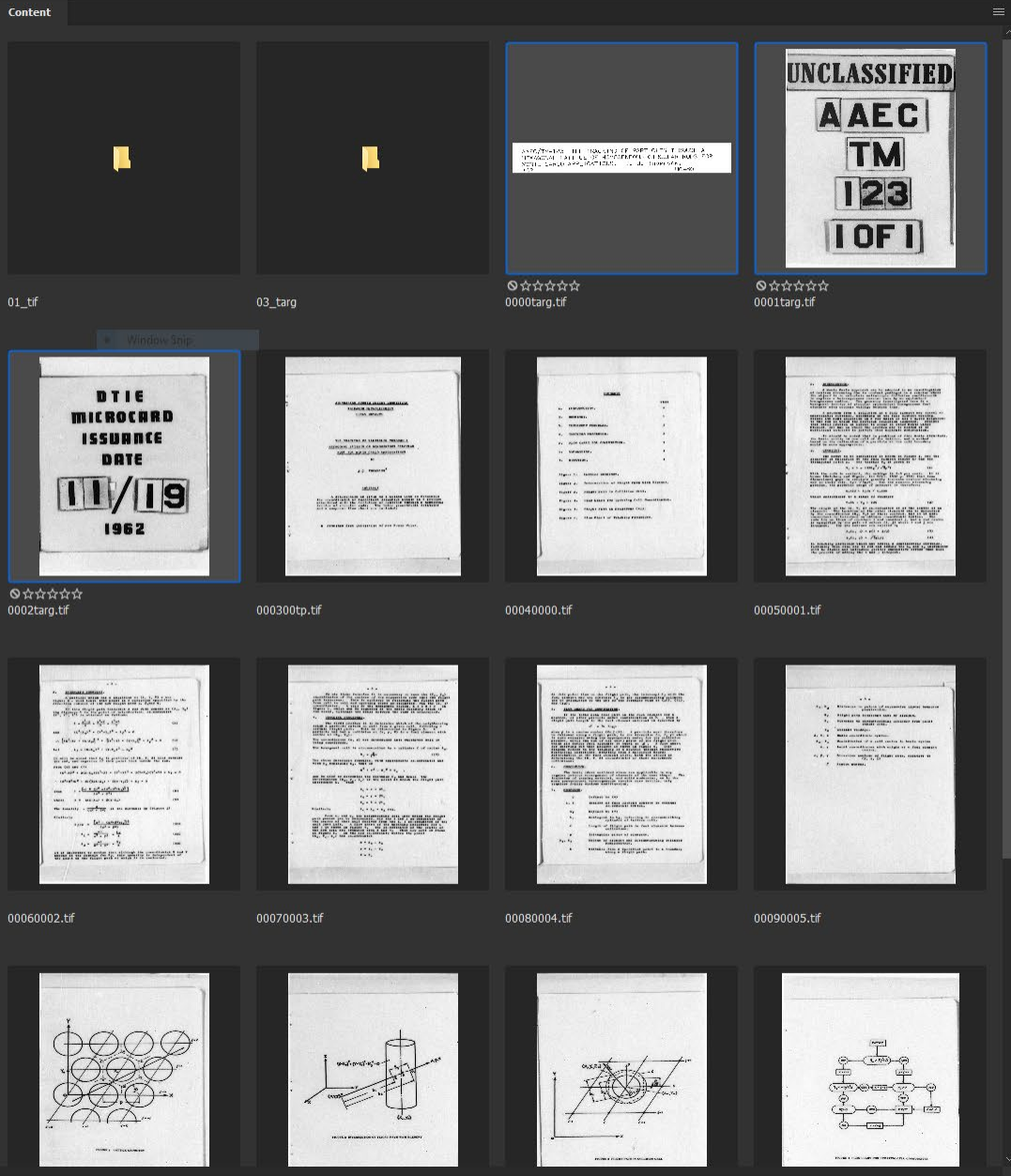
Filter Metadata Collections

File Properties

- Filename (Multiple values)
- Document Type TIFF image
- Application Liberty v2.10.6
- Date Created (Multiple values)
- Date File Modified (Multiple values)
- File Size (Multiple values)
- Dimensions (Multiple values)
- Dimensions (in inches) (Multiple values)
- Resolution (Multiple values)
- Bit Depth (Multiple values)
- Color Mode (Multiple values)
- Color Profile Untagged

IPTC Core

- IPTC Extension
- Camera Data (Exif)
- GPS
- Audio
- Video
- DICOM
 - Patient Name
 - Patient ID
 - Date of Birth
 - Patient Sex
 - Study ID
 - Referring Physician
 - Study Date



Preview

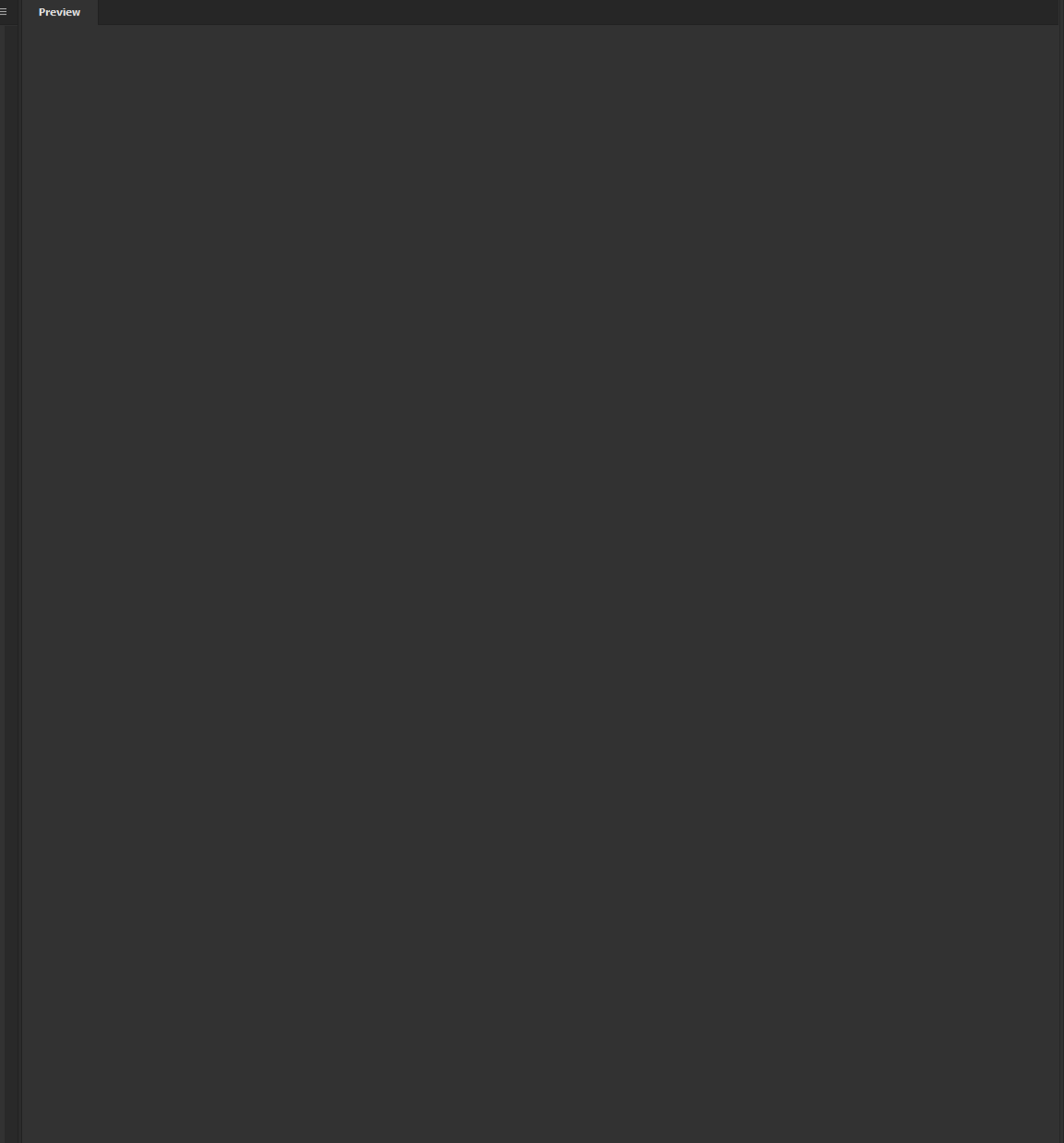
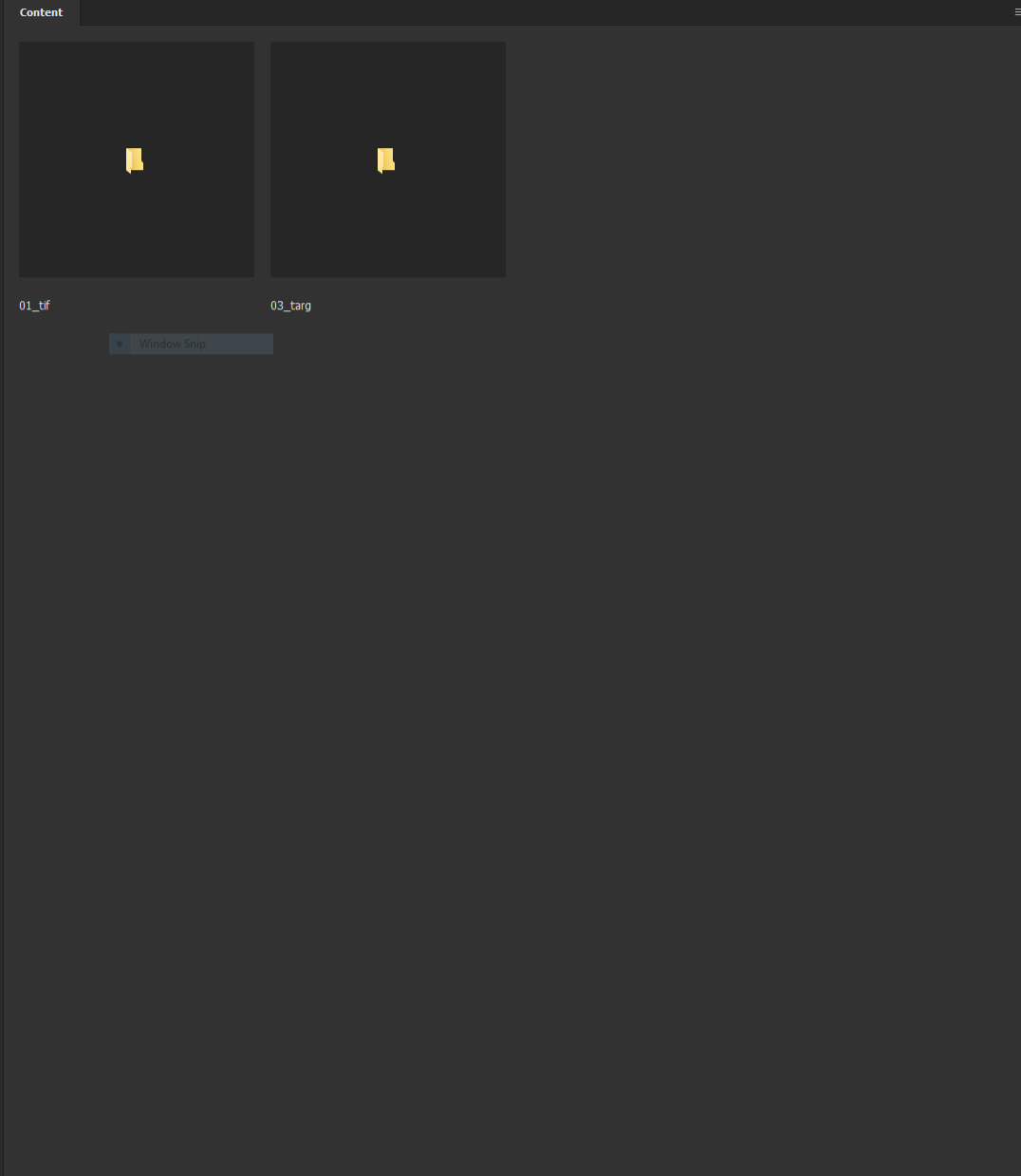
UNCLASSIFIED
AAEC
TM
123
1 OF 1

AAEC/TM-123 THE TRACKING OF PARTICLES THROUGH A
HEXAGONAL LATTICE OF HOMOGENEOUS CIRCULAR RODS FOR
MONTE CARLO APPLICATIONS. J. J. THOMPSON.
'62 UC-80

0000targ.tif

0001targ.tif 0002targ.tif

- Folders
- Desktop
- This PC
- Windows (C:)
- DATA (D:)
 - \$MfeDeepRem
 - 1941
 - 1998-mark
 - code
 - com_fiche_out
 - conerences
 - ffmpeg
 - fritz
 - Google-Drive
 - job_set_1.pgs.PGF
 - junebug-university
 - kevin
 - microcards-in
 - microcards-out
 - metadc1257460_01
 - mizo
 - New folder
 - pan-texas
 - PSAutoRecover
 - refining the new tennessee



Filter Metadata Collections

No files selected

Structure of a complete microcard

```
└─ metadc1250377/  
  └─ 01_tif/ - (goes online)  
  └─ 02_pdf/ - (goes online)  
  └─ 03_targ/ - (archive only)  
  └─ 04_card/ - (archive only)  
  └─ metadata.xml
```


Quality Control Checks

- Verify that the metaid and report number match in spreadsheet
- Based on targets, are all cards present with no extras?
- Are all the pages cropped correctly?
- Update spreadsheet as passing or note any issues.

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AAEC/TM-123 THE TRACKING OF PARTICLES THROUGH A
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Things that can go wrong.

- Card present but not scanned
- Card inserted into wrong envelope (at Arizona or vendor)
- Scan of one card used for another card (duplicate scans)
- Card missing (we haven't seen this yet)

Steps after QC

- Optical Character Recognition
 - Abbyy Finereader Server 14
- Metadata sorting and metadata templates
- Packaging for ingest
- Ingest into access and preservation system
- Microcards available for metadata creation in UNT Digital Libraries' Edit system.

Filtering By:

Collection: TRAIL Microcard Collection
Visibility: Displaying Only Hidden Records

Date Validity

Valid Dates: 6,092
Invalid Dates: 17

Record Completeness

Complete Records: 145
Incomplete Records: 7,964

Location Data

Records With PlaceNames: 7,715
Records Without PlaceNames: 394

Recently Edited Records

Last 90 Days: 2
Last 180 Days: 4,157
Last 365 Days: 7,546

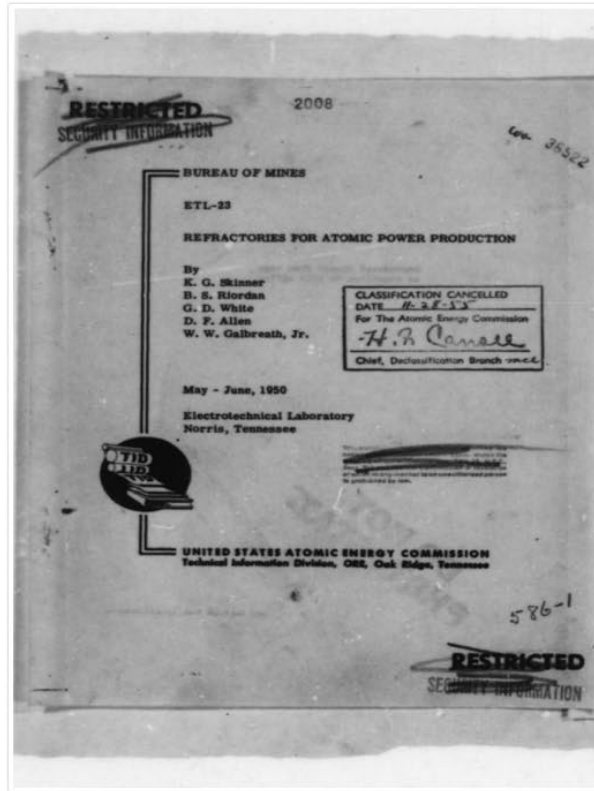
Recently Added Records

Last 180 Days: 4,154
Last 365 Days: 7,546

Search For Records
Your Search Terms
Metadata
Search Clear

View Options
Showing 1 - 10 of 8,109 items
List Grid
Sort by: Title

Title		Identifier					
Thumbnail	Links	System	Collection(s)	Partner(s)	Modified	Accession	Visible
The Activation of the Rare Earths by Thermal Neutrons		ark:/67531/metadc1463942					
	Edit Summary	DC	TRAMC TRAIL	UNTGD	02/23/2022	09/20/2021	X
An Anode-Channel Source for Positive Ion Beams		ark:/67531/metadc1463946					
	Edit Summary	DC	TRAIL TRAMC	UNTGD	03/30/2022	09/20/2021	X
Dana Plant Technical Department Monthly Status Report: {{{month YYYY}}} metadc1250258		ark:/67531/metadc1250258					
	Edit Summary	DC	TRAMC TRAIL	UNTGD	05/12/2021	05/12/2021	X
Dana Plant Technical Department Monthly Status Report: {{{month YYYY}}} metadc1250259		ark:/67531/metadc1250259					
	Edit Summary	DC	TRAMC TRAIL	UNTGD	05/12/2021	05/12/2021	X
Dana Plant Technical Department Monthly Status Report: {{{month YYYY}}} metadc1250260		ark:/67531/metadc1250260					
	Edit Summary	DC	TRAMC TRAIL	UNTGD	05/12/2021	05/12/2021	X
Dana Plant Technical Department Monthly Status Report: {{{month YYYY}}} metadc1250261		ark:/67531/metadc1250261					
	Edit Summary	DC	TRAMC TRAIL	UNTGD	05/12/2021	05/12/2021	X



Refractories for Atomic Power Production: {{{date/s}}} metadc1250401

Edit Record

View on The Digital Library (Currently Hidden)

View Item

View History

Visible	<input checked="" type="checkbox"/>
Unlocked	<input checked="" type="checkbox"/>
Complete	<input checked="" type="checkbox"/>
Valid Dates	<input checked="" type="checkbox"/>

Number of Editors: 0

Added: 2021-05-12 15 hours, 40 minutes ago

Added
2021-05-12

Edit Timeline

Today
2021-05-12

| = Hidden | = Unhidden

Field	Qualifier	Value
Title	<u>officialtitle</u>	Refractories for Atomic Power Production: {{{date/s}}} metadc1250401
	<u>serialtitle</u>	Refractories for Atomic Power Production
	<u>seriestitle</u>	United States Bureau of Mines Reports
	<u>addedtitle</u>	United States Bureau of Mines Report ETL-#
Creator	<u>aut</u>	Name: {{{name}}}
		Type: per
	<u>aut</u>	Name: {{{name}}}

Field	Qualifier	Value
Title	<u>officialtitle</u>	Refractories for Atomic Power Production: {{{date/s}}} metadc1250401
	<u>serialtitle</u>	Refractories for Atomic Power Production
	<u>seriestitle</u>	United States Bureau of Mines Reports
	<u>addedtitle</u>	United States Bureau of Mines Report ETL-#
Creator	<u>aut</u>	Name: {{{name}}} Type: per
	<u>aut</u>	Name: {{{name}}} Type: per
	<u>aut</u>	Name: {{{name}}} Type: per
	<u>aut</u>	Name: {{{name}}} Type: per
	<u>aut</u>	Name: {{{name}}} Type: per
Contributor	<u>csf</u>	Name: {{{name}}} Type: per
	<u>csf</u>	Name: {{{name}}} Type: per
	<u>org</u>	Name: United States. Bureau of Mines. Electrotechnical Laboratory. Type: org
	<u>spn</u>	Name: U.S. Atomic Energy Commission Type: org
Publisher		Name: U.S. Atomic Energy Commission. Division of Technical Information. Location: Oak Ridge, Tennessee
Date		
Language		English
Description	<u>content</u>	...
	<u>physical</u>	# p.
Subject	<u>KWD</u>	progress reports
Primary Source		True
Coverage	<u>placeName</u>	United States
Source		
Citation		
Relation		
Collection		TRAIL Microcard Collection Technical Report Archive and Image Library

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2008

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BUREAU OF MINES

ETL-23

REFRACTORIES FOR ATOMIC POWER PRODUCTION

By
K. G. Skinner
B. S. RJordan
G. D. White
D. F. Allen
W. W. Galbreath, Jr.

CLASSIFICATION CANCELLED
DATE 11-28-55
For The Atomic Energy Commission
H. R. Canale
Chief, Declassification Branch

May - June, 1950

Electrotechnical Laboratory
Norris, Tennessee



UNITED STATES ATOMIC ENERGY COMMISSION
Technical Information Division, ORE, Oak Ridge, Tennessee

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Status of Project

- 140 of 140 boxes scanned by vendor
- 49 batches of 140 have been processed by UNT (35%)

Boxes	Reports	Cards	Total Tiff	Non-Targets	Targets
49	10,710	17,911	417,457	366,765	50,736

Final Project Costs

- 2 student workers, total of ~40 hours per week
- 2 student workers, total of ~60 hours per week during Summer 2022
- Fall 2022 moving to 3 student workers for ~60 hours per week

- UNT will be working through budgets to see how much of the original \$150,000 is remaining after taking out vendor costs and student hours on project so far.
- Shifted goal is Aug 2023 for completing processing.

Discussion