SECRET-RD

SECRET SECURITY INFORMATION

M88036384

REDACTED COPY

3384

Project Matterhorn
Princeton University
Princeton, New Jersey

This document consists of 32 Page(s) No. 11 of 50 Copies, Series A

-D00031764

INV 88

D00032559

TATALON DATA

CLASSIFICATION CANCELLED OR CHANGED TO W. deletion;
BY AUTHORITY OF Michael Kelday

Memo.....DATE...5/8/2014

ZEPHYR

DELETED

Derivation of Equations

DOE

b(3)

Part I.

PM-B-18

Work done by:

6 September 15, 1952 7 5 - 60 - 9)

Report written by:

John Toll

Walter Aron Katherine Curtin John Toll

RESTRICTED DATA

This document contains restricted data as defined in the Atomic Energy Act of 1946. Its transmittal or the disclosu. of its contents in any manner to an urauthorized person is prohibited.

20130007290

20140007556

49037

RECEIMED

MAY 7-1959

TECHNICAL NET LIBRARY

SECRET-RD

i.

Table of Contents

- 1. Introduction
- 2. Summary of equations differing from Chief
- 3. The determination of fuel temperature from energy conservation
- 4. Formulae for energy density and pressure in the fuel
- 5. Radiative transmissivity of the fuel
- 6. Fission reactions

SECRET-RD

-SECRET SECURITY INFORMATION

1.

1.	Introduction	
:		
	DELETED	DOE b(3)

-SECRET-RD

2. DOE b(3) **DELETED**

SECKET SECURITY INFORMATION

SECRET-RD-

3.

DOE b(3) **DELETED**

-SECRET / RD-

UNCLASSIFIED-

4.

DELETED

DOE b(3)

HNCI ACCIOND.

CE		CT	<i>i</i> г	תנ	.
OE	UK		T	ΛĒ	

UNCLASSIFIED 5. **DELETED**

DOE b(3)

UNCLASSIFIED

SECRET / RD

2	ET/	
0		שאד

DELETED

DOE b(3)

UNCLASSIFIED

	DE			
<u> </u>	ΝC	TT	KI	_

UNCLASSIFIED

7.

DELETED

DOE b(3)

UNCLASSIFIED

 CE					
o E	OIT		776	"	_
 77 32		تععا	T D		

8,

DELETED

DOE b(3)

HNCLASSIFIED

SECRET / RD

SECRET / RD

-SECRET SECURITY INFORMATION	9.	DOE b(3)
·		
·		
DELETED		
	·	
-		
·		
	,	

OFORET DD
3ECVE L-IVE
COCODE CONTRACTOR OF TAXABLE CONTRACTOR OF T

10.

						1
						E
ĺ						
						İ
						1
1						- 1
1						
ĺ	•					
					•	
		_				
		•				
						1
			-			
						DOE
		וח	ELETED			b(3)
						1h(3)
						1000
·						
					,	
					,	
					,	
					,	
·					,	
·					,	
					,	
					,	
					,	
					,	
					,	
					,	
					,	
					,	

SECRET SECURITY INFORMATION-

SECRET-RD

SECRET-RD -

11.

DELETED

DOE b(3)

---SECRET-RD

SECURA SECTIBITY INFORMATION

12.

DELETED

DOE b(3)

SECRET-RD

—SECRET-RD

SECRET SECURITY INFORMATION

13.

DELETED

DOE b(3)

OFOET_RD	
- SEOILE LIVE	
THE PROPERTY OF THE PROPERTY O	

14. DOE b(3)

DELETED

SECRET SECURITY INFORMATION

SECRET-RD

SECRET-RD

15.

DOE b(3)

DELETED

SECRET-RD SECRET SECURITY INFORMATION

16.

	,
	i
·	
	ŀ
	ł
	1
	i
•	!
[·	
·	
	non
DELETED	DOE
DELETED	b(3)
	'

SECRET SECURITY INFORMATION

_		
		•
		•
	·	.,
	DELETED	DOE b(3)
	•	

SECRET SECURITY INFORMATION

SECRET-RD

17.

	SECRET SECURITY INFORMATION	18.
	· · · · · · · · · · · · · · · · · · ·	
	DELETED	DOF b(3)
·		
		·

	SECRET SECURITY INFORMATION	19.	DOE b(3)
-			
	DELETED		

-SECRET-RD-

SECRET SECURITY INFORMATION

20.

DELETED

DOE b(3)

-SEGRET-RD

SECRET SECURITY INFORMATION

21. $\begin{array}{c} \text{DOE} \\ \text{b}(3) \end{array}$.

DELETED

-SEGRET-SECURITY INFORMATION ...

	SECRET-RD SECRET SECURITY INFORMATION	22.	DO:
	·		
-			
, ,			1
		·	
	DELETED		
			-

	SECRET-RD SECRET SECURITY INFORMATION	23. DOI b(3)
	•	
		,
	DELETED	
- - - -		
:	·	



	SECRET SECURITY INFORMATION	24.	DOE b(3)
	•		:
		,	
•			
-	DELETED		

-SECRET-RD	SECRET SECURITY INFORMATION	·	25.
			·
		,	
·			
	DELETED		DOI b(3)
	BLLLILD		D(3)
			:

	ROSECRET			
		1 0 to 0 110 100 17		4.1.T (A) N.
SECITE!		TITIO ORGIN	TIAT OTEN	TTT TOT

26.

DELETED

DOE b(3) **DELETED**

DOE b(3)

—SECRET-RD

28.

SECRET SECURITY INFORMATION

,		
,		
	DELETED	DOE b(3)
		טנטי

- SECRET-RD

29. SECRET SECURITY INFORMATION DOE **DELETED** b(3)

- SECRET-SEGURITY INFORMATION

SECRET-RD— SECRET SECURITY INFORMATION	30.	DOI b(3)
		٠
	·	
DELETED		****