DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

**Cover Sheet for a Hanford
Historical Document
Released for Public Availability**

Released 1994

**Prepared for the U.S. Department of Energy
under Contract DE-AC06-76RLO 1830**

**Pacific Northwest Laboratory
Operated for the U.S. Department of Energy
by Battelle Memorial Institute**

MASTER

DISTRIBUTION OF THIS DOCUMENT IS UNLIMITED

DT

RICHLAND, WASHINGTON

DOCUMENT NO.

DUN-2816 RD

Hanford Code C-65
SERIES AND COPY NO.

DATE _____

7-17-67

TITLE

TISR-172 SAMPLE EXPOSURES

AUTHOR

A. E. DeMers

ISSUING FILE

OTHER OFFICIAL CLASSIFIED INFORMATION

THIS MATERIAL CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE LAWS, TITLE 18, U.S.C., SECS. 793 AND 794, THE TRANSMISSION OR REVELATION OF WHICH IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW.

THIS DOCUMENT MUST NOT BE LEFT UNATTENDED OR WHERE AN UNAUTHORIZED PERSON MIGHT HAVE ACCESS TO IT. WHEN NOT IN USE, IT MUST BE STORED IN AN APPROVED LOCKED DEPOSITORY WITHIN AN APPROVED GUARDED AREA, WHILE IT IS IN YOUR POSSESSION AND UNTIL YOU HAVE OBTAINED A SIGNED RECEIPT FROM CLASSIFIED FILES, IT IS YOUR RESPONSIBILITY TO KEEP IT AND ITS CONTENTS WITHIN THE LIMITS OF THIS SUBJECT AND FROM ANY UNAUTHORIZED PERSON. ITS TRANSFER TO, AND STORAGE AT, YOUR PLACE OF RESIDENCE IS PROHIBITED. IT IS NOT TO BE DUPLICATED. IF ADDITIONAL COPIES ARE REQUIRED, OBTAIN THEM FROM THE RELATION ISSUING FILE. ALL PERSONS READING THIS DOCUMENT ARE REQUESTED TO SIGN IN THE SPACE PROVIDED BELOW.

[illegible]

(CLASSIFICATION)

RECEIVED

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

DECLASSIFIED

DUN-2816 RD
C. 1-A
7-17-67
Hanford Code C-65

This document classified by:

T. J. DeMers

This document consists of
_____ pages, _____

DISTRIBUTION

Battelle-Northwest

1. RW Perkins

TISR-172 SAMPLE EXPOSURES

A. E. DeMers

Classification Cancelled and Changed To

DECLASSIFIED

By Authority of CG-NMP-1,

D. S. Lewis, 8-16-94.

By Gerri Maley, 10-3-94

Verified By J. E. Savely, 10-4-94

MASTER

LEGAL NOTICE

This report was prepared as an account of Government sponsored work. Neither the United States, nor the Commission, nor any person acting on behalf of the Commission.

A. Makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report, or that the use of any information, apparatus, method, or process disclosed in this report may not infringe privately owned rights; or

B. Assumes any liabilities with respect to the use of, or for damages resulting from the use of any information, apparatus, method, or process disclosed in this report.

As used in the above, "person acting on behalf of the Commission" includes any employee or contractor of the Commission, or employee of such contractor, to the extent that such employee or contractor of the Commission, or employee of such contractor prepares, disseminates, or provides access to, any information pursuant to his employment or contract with the Commission, or his employment with such contractor.

NOTICE!

This report was prepared for use within General Electric Company in the course of work under Atomic Energy Commission Contract AT (45-1) -1350, and any views or opinions expressed in the report are those of the author only. This report is subject to revision upon collection of additional data.

DECLASSIFIED

DUN 2816 RD

COPY _____ OF _____ SERIES **A**

CONTINUOUS PAGINATION FOR _____

[illegible]

THIS CONTINUOUS PAGINATION FORM IS TO BE USED FOR REVISING CLASSIFIED MANUALS OR ACCUMULATING CLASSIFIED WORKING PAPERS IN A BINDER ISSUED AND CONTROLLED BY CLASSIFIED FILES.

COPY _____ OF _____ SERIES

CONTINUOUS PAGINATION FOR _____

AS OF	<u>6-24-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>31 & 32</u>	PAGES
AS OF	<u>6-26-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>33</u>	PAGES
AS OF	<u>6-30-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>34 & 35</u>	PAGES
AS OF	<u>6-30-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>36</u>	PAGES
AS OF	<u>7-7-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>37</u>	PAGES
AS OF	<u>7-7-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>38</u>	PAGES
AS OF	<u>7-7-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>39</u>	PAGES
AS OF	<u>7-22-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>40</u>	PAGES
AS OF	<u>7-24-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>41</u>	PAGES
AS OF	<u>7-28-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>42</u>	PAGES
AS OF	<u>7-28-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>43</u>	PAGES
AS OF	<u>7-30-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>44</u>	PAGES
AS OF	<u>8-4-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>45</u>	PAGES
AS OF	<u>8-8-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>46</u>	PAGES
AS OF	<u>9-2-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>47</u>	PAGES
AS OF	<u>9-13-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>48</u>	PAGES
AS OF	<u>9-18-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>49</u>	PAGES
AS OF	<u>9-25-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>50</u>	PAGES
AS OF	<u>10-6-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>51</u>	PAGES
AS OF	<u>10-6-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>52</u>	PAGES
AS OF	<u>10-6-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>53</u>	PAGES
AS OF	<u>10-6-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>54</u>	PAGES
AS OF	<u>10-7-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>55</u>	PAGES
AS OF	<u>10-9-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>56</u>	PAGES
AS OF	<u>10-20-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>57 & 58</u>	PAGES
AS OF	<u>11-13-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>59</u>	PAGES
AS OF	<u>11-17-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>60</u>	PAGES
AS OF	<u>12-1-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>61</u>	PAGES
AS OF	<u>12-2-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>62</u>	PAGES
AS OF	<u>12-8-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>63</u>	PAGES

THIS CONTINUOUS PAGINATION FORM IS TO BE USED FOR REVISING CLASSIFIED MANUALS OR ACCUMULATING CLASSIFIED WORKING PAPERS IN A BINDER ISSUED AND CONTROLLED BY CLASSIFIED FILES.

COPY _____ OF _____ SERIES

CONTINUOUS PAGINATION FOR _____

AS OF	<u>1-6-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>1</u>	PAGES
AS OF	<u>1-8-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>2</u>	PAGES
AS OF	<u>1-8-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>3</u>	PAGES
AS OF	<u>1-13-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>4</u>	PAGES
AS OF	<u>1-20-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>5</u>	PAGES
AS OF	<u>1-27-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>6</u>	PAGES
AS OF	<u>2-10-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>7</u>	PAGES
AS OF	<u>2-17-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>8</u>	PAGES
AS OF	<u>2-24-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>9</u>	PAGES
AS OF	<u>2-24-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>10</u>	PAGES
AS OF	<u>3-2-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>11</u>	PAGES
AS OF	<u>3-10-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>12</u>	PAGES
AS OF	<u>3-12-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>13</u>	PAGES
AS OF	<u>3-17-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>14</u>	PAGES
AS OF	<u>3-17-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>15</u>	PAGES
AS OF	<u>3-24-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>16</u>	PAGES
AS OF	<u>4-3-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>17</u>	PAGES
AS OF	<u>4-16-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>18</u>	PAGES
AS OF	<u>4-22-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>19</u>	PAGES
AS OF	<u>4-25-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>20</u>	PAGES
AS OF	<u>5-5-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>21</u>	PAGES
AS OF	<u>5-7-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>22</u>	PAGES
AS OF	<u>5-11-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>23</u>	PAGES
AS OF	<u>5-12-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>24</u>	PAGES
AS OF	<u>5-15-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>25</u>	PAGES
AS OF	<u>5-15-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>26</u>	PAGES
AS OF	<u>5-19-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>27</u>	PAGES
AS OF	<u>5-19-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>28</u>	PAGES
AS OF	<u>6-4-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>29</u>	PAGES
AS OF	<u>6-11-69</u>	(DATE)	THIS DOCUMENT CONSISTS OF	<u>30</u>	PAGES

THIS CONTINUOUS PAGINATION FORM IS TO BE USED FOR REVISING CLASSIFIED MANUALS OR ACCUMULATING CLASSIFIED WORKING PAPERS IN A BINDER ISSUED AND CONTROLLED BY CLASSIFIED FILES.

TISR-172
SAMPLE EXPOSURES

Customer TANNER

Customer Piece # See Below

Customer Sample # X

ITU Piece # 2653 thru 2666 (Dr.)

Charge Date X

Charge Time X

Discharge Date X

Discharge Time X

REMARKS: 30 Minutes in Core

Set #1 (1294-95)

Pocket #	Sample #
1	1
2	2
3	3
4	al std
5	4
6	5
7	6

Charged	Discharged
0845	0915

1-24-71

Set #2 (1294-95)

Pocket #	Sample #
1	7
2	8
3	9
4	al std
5	10
6	11
7	12

Charged	Discharged
0950	1020

1-24-71

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # set 3 & set 4

Customer Sample # _____

ITU Piece # 2544 thru 2554

Charge Date 10-31-70

Charge Time see Below

Discharge Date 10-31-70

Discharge Time _____

REMARKS:

			<u>Time</u>	
			charged	discharged
set 3	sample	POC.		
	1	1	1150	1220
	2	2		
	3	3		
	std	4		
	4	5		
	5	6		
<hr/>				
set 4	6	1	1300	1330
	7	2		
	8	3		
	std	4		
	9	5		
	10	6		

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1-2-3-4-5 ac#1

Customer Sample # ✓

ITU Piece # 2379-2384

Set #1

Charge Date 5-9-70

Charge Time 1300

Discharge Date 5-9-70

Discharge Time 1330

REMARKS:

30 Min. Core

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 6-7-8-9-10 QR#2

Customer Sample # _____

ITU Piece # 2385-2390

Set#2

Charge Date 5-9-70

Charge Time 1400

Discharge Date 5-9-70

Discharge Time 1430

REMARKS:

30 Min in Core soon after Set#1
#10 - Has no Rad.

DECLASSIFIED

TISR
PLASTIC SAMPLE EXPOSURES

Customer Tanner

Customer Piece # 1-2-Std-

Customer Sample # 1

IRS Piece # 2374-2375-2376

2

Std.

Charge Date 5-6-70

Charge Time See Below

Discharge Date 5-6-70

Discharge Time

Remarks: 30 Minutes each in R-4

	In	Out
1	0948	1018
2	1022	1052
Std	1116	1146

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # 1 + 2

Customer Sample #

#1	#2
Na	P

ITU Piece # 2371 & 2372

Charge Date 5-5-70

Charge Time 0815

Discharge Date 5-5-70

Discharge Time 0845

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # _____

Customer Sample # 1 Set A1

ITU Piece # 2353-2357

2

3

4

Charge Date 4-1-70 1 al.

Charge Time 0915

Discharge Date 4-1-70

Discharge Time 0945

REMARKS: Std al. can in position # 4

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # _____

Customer Sample # 5 Sept 2

ITU Piece # 2358-2361

6
7
2 Al.

Charge Date 11-1-70

Charge Time 1005

Discharge Date 4-1-70

Discharge Time 1035

REMARKS:

Std Al. can in position #4

~~to~~

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer CHRISTENSEN

Customer Piece # NINE

Customer Sample # P STD

ITU Piece # 2369

Charge Date 4-28-70

Charge Time 0720

Discharge Date 4-28-70

Discharge Time 0850

REMARKS: Position - Core Pocket # 4

DECLASSIFIED

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # F-GH-#10-I-J

Customer Sample # X

ITU Piece # 2333 through 2338

Charge Date 1-24-70

Charge Time 1135

Discharge Date 1-24-70

Discharge Time 1205

REMARKS: 30 min in core

RECEIVED

Set #10

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer B. H. Christensen

Customer Piece # A-B-C-#9-D & E

Customer Sample # X

ITU Piece # 2327 through 2332

Charge Date 1-24-70

Charge Time 1045

Discharge Date 1-24-70

Discharge Time 1115

REMARKS: 30 min in core

DECLASSIFIED

Set # 9

[REDACTED]

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # 1-2-3-8-4-5

Customer Sample # [Signature]

ITU Piece # 2321- through 2326

Charge Date 1-24-70

Charge Time 09⁵³

Discharge Date 1-24-70

Discharge Time 10²³

REMARKS: 30 min in core

DECLASSIFIED

[REDACTED]

Set # 8

Set # 7
~~_____~~DUN-2816 RD
Page _____TISR-172
SAMPLE EXPOSURESCustomer B. H. ChristensenCustomer Piece # 31-32-33-7-34-35-36

Customer Sample #

ITU Piece # 2314- 2315- 2316- 2317
2318- 2319- 2320Charge Date 1- 24- 70Charge Time 09 05Discharge Date 1- 24- 70Discharge Time 09 35REMARKS: 30 min in core**DECLASSIFIED**~~_____~~
Set # 7

TISR 172
PLASTIC SAMPLE EXPOSURESCustomer ChristensenCustomer Piece # 1-A THRU 8ACustomer Sample # _____

_____IRS Piece # 2304 THRU 2313Charge Date 1-20-70Charge Time 1050 1125Discharge Date 1-20-70Discharge Time 1120 1155Remarks:

DECLASSIFIED

Res-400
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # _____

Customer Sample # _____

ITU Piece # See 45 to 68

Charge Date 1-17-70

Charge Time Below

Discharge Date 1-17-70

Discharge Time _____

REMARKS:

all Al. cans were put in position # 4 (X)

No. 1 packet not used.

		IN	OUT
Set #1	11 to 15 x #1	1026	1056
Set #2	16 to 20 x #2	1130	1200
Set #3	21 to 25 x #3	1217	1247
Set #4	26 to 30 x #4	1301	1331

} Cove

DECLASSIFIED

R00-056
~~PIER 170~~
SAMPLE EXPOSURES

Customer *Ed Wood*

Customer Piece # *E-8 + F-13*

Customer Sample # _____

ITU Piece # *19420*

Charge Date _____

Charge Time _____

Discharge Date _____

Discharge Time _____

REMARKS:

	<i>Charged</i>	<i>Time</i>	<i>Discharged</i>	<i>Time</i>
<i>E-8</i>	<i>1-17-70</i>	<i>1308</i>	<i>1-18-70</i>	<i>1030</i>
<i>F-13</i>	<i>1-17-70</i>	<i>1335</i>	<i>1-18-70</i>	<i>1030</i>

R-3 Positions

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # 1294-81

Customer Sample # Plastic
Blank

ITU Piece # 2289

Charge Date 12-9-69

Charge Time 0822

Discharge Date 12-9-69

Discharge Time 0852

REMARKS:

$\frac{1}{2}$ hr in R-4 + Silver
(Pocket # 3)

DECLASSIFIED

~~800 - 400~~
~~TISR-172~~
SAMPLE EXPOSURES

Customer B. J. Christensen Customer Piece # 1, 2, 3, 4, 5 Std

Customer Sample # ITU Piece # 20 thru 25

Charge Date 12-6-69 Charge Time

Discharge Date 12-6-69 Discharge Time See below

REMARKS:

First set Charged @ 0915 out 0945
2nd set Charged @ 1058 out 1138

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer TANNER

Customer Piece # 1-2-STD

Customer Sample # _____

ITU Piece # 2284-P5-PC

Charge Date 12-2-69

Charge Time _____

Discharge Date 12-2-69

Discharge Time _____

REMARKS: 2- 0919 - 0944
1 0945 - 1010
STD - 1011 - 1036

DECLASSIFIED

200-400
TISR-172
SAMPLE EXPOSURES

Customer B.G. Christensen

Customer Piece # 1-2-3-4-5

Customer Sample # _____

ITU Piece # 2284 through 2289

Charge Date 11-29-69

Charge Time 0940

Discharge Date 11-29-69

Discharge Time 1010

REMARKS: 30 min in core

DECLASSIFIED

000400
~~TER~~
SAMPLE EXPOSURES

Customer B. L. Christensen

Customer Piece # set 1 1-2-3-al^{#1} 4-5-9
set 2 11-13-14 al^{#2} 15-1

Customer Sample # _____

ITU Piece # 1 thru 13

Charge Date 11-15-69

Charge Time 1005
1100

Discharge Date 11-15-69

Discharge Time 1035
1130

REMARKS: 30 min in Core

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # Short & Long

Customer Sample # Long

ITU Piece # 2280-2281

Short

Charge Date 11-13-69

Charge Time 1025

Discharge Date 11-13-69

Discharge Time 1125

REMARKS:

1 Hour $\left\{ \begin{array}{l} \text{Short in R-5} \\ \text{Long in R-6} \end{array} \right.$

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. S. Chittam

Customer Piece # 1 thru 6 + Std

Customer Sample # _____

ITU Piece # 2265 thru 2271

Charge Date 10-18-69

Charge Time 952

Discharge Date 10-18-69

Discharge Time 1052

REMARKS:

set 1

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

11-13-14-15-16

Customer B.G. Chestnut

Customer Piece # ~~T111111~~ + Std

Customer Sample # _____

ITU Piece # 2272 then 2274

Charge Date 10-18-69

Charge Time 1052

Discharge Date 10-18-69

Discharge Time 1122

REMARKS:

set 2

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Janner

Customer Piece # 1294-78 + Std

Customer Sample # 1294-78
Std

ITU Piece # 2263 + 2264

Charge Date 10-9-69

Charge Time See Below

Discharge Date 10-9-69

Discharge Time /

REMARKS:

1294-78 - Time In - 0913 -
out 0943

Std - Time In - 0943
out 1013

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Rancitelli

Customer Piece # 1

Customer Sample # 1

ITU Piece # 2262

Charge Date 10-6-69

Charge Time 1345

Discharge Date 10-6-69

Discharge Time 1346

REMARKS: 1-min in R-3

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # 11-13-14-2-16

Customer Sample # X

ITU Piece # 2257 through 2261

Charge Date 10-4-69

Charge Time 1220

Discharge Date 10-4-69

Discharge Time 1250

REMARKS:

Filter #2

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B.H. Christensen

Customer Piece # 1-3-4-1-5-6

Customer Sample # X

ITU Piece # 2251 through 2256

Charge Date 10-4-69

Charge Time 1139

Discharge Date 10-4-69

Discharge Time 1209

REMARKS:

Filter #1

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B.G. Christensen

Customer Piece # 6-7-8-2-9

Customer Sample #

ITU Piece # 2246 through 2250

Charge Date 10-4-69

Charge Time 1027

Discharge Date 10-4-69

Discharge Time 1057

REMARKS:

Lung # 2

DECLASSIFIED

DECLASSIFIED

Long #1

REMARKS:

Discharge Date *10-4-69*

Discharge Time *1000*

Charge Date *10-4-69*

Charge Time *0930*

Customer Sample #

X

Customer *B.H. Johnston*

Customer Piece # *1-2-31-45*

ITV Piece # *2240 Through 2245*

TISR-172
SAMPLE EXPOSURES

TISR-172
SAMPLE EXPOSURES

Customer B.G. Christensen

Customer Piece # 1

Customer Sample # #1-STD

ITU Piece # 2239

Charge Date 9-24-69

Charge Time 1000

Discharge Date 9-24-69

Discharge Time 0845 1130

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer TANNER

Customer Piece # _____

Customer Sample # _____

ITU Piece # 2233 - 34 - 55

Charge Date 9-18-69

Charge Time 0910
0940
1010

Discharge Date 9-18-69

Discharge Time 0940
1010
1040

REMARKS:

R 4

4B Kw

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer

Tanner

Customer Piece #

TMT 1294

Customer Sample #

CR 21m

ITU Piece #

2232

ZN

Hg

PE

SC

SE

RB

Charge Date

9-13-69

Charge Time

0820

Discharge Date

9-13-69

Discharge Time

0850

REMARKS:

$\frac{1}{2}$ hour in R-6

4B KW

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B G Christensen

Customer Piece # 2-3-4-std-5-6-7-std

Customer Sample # _____

ITU Piece # 2217 thru 2224

Charge Date 8-30-69

Charge Time 0900

Discharge Date 8-30-69

Discharge Time 0930

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer RANCITELLI

Customer Piece # FE 4101

Customer Sample # FE

ITU Piece # 2128 + 2129
2111 + 2112

101

Charge Date ~~9-31-69~~

Charge Time _____

Discharge Date FE-~~8-7-69~~
101-~~8-7-69~~

Discharge Time See below

REMARKS:

FE - 8-7-69
8-7-69

Time In 1337
out 1339

101 8-7-69
8-8-69

Time In 1340
out 1340

DECLASSIFIED

3262

TISR-172
SAMPLE EXPOSURES

Customer Rancililli

Customer Piece # _____

Customer Sample # _____

ITU Piece # 2113

Ch 5mg

Na 4mg

Charge Date 8-4-69

Charge Time 0635

Discharge Date 8-4-69

Discharge Time 0655

REMARKS:

20 min in R-3

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer D.R. EDWARDS

Customer Piece # G1- through G-10+STC

Customer Sample # _____

ITU Piece # 2100 through 2110

Charge Date 7-29- 69

Charge Time See below

Discharge Date 7-29- 69

Discharge Time _____

REMARKS:

<u>SAMPLE #</u>	<u>Charge</u>	<u>Discharge</u>
G-1	1252	1257
2	1300	1305
3	1306	1311
4	1312	1317
5	1318	1323
6	1324	1329
7	1330	1335
8	1336	1341
9	1347	1352
10	1353	1358
& STO	1359	1404

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

#1

#2

Customer Christensen

Customer Piece # _____

#1	#2
Customer Sample # <u>3-20</u>	<u>1-20</u>
<u>4</u>	<u>2-20</u>
<u>5</u>	<u>7</u>
<u>std</u>	<u>std</u>
<u>6</u>	<u>8</u>
<u>1-19</u>	<u>3-19</u>
<u>2-19</u>	

#1 - 2000 thru 2006
ITU Piece # #2 - 2007 thru 2012

Charge Date _____

Charge Time _____

Discharge Date 7-25-69

Discharge Time Set #1

REMARKS:

Set #1

Set #2

Sample	Pos.
3-20	1
4	2
5	3
std	4
6	5
1-19	6
2-19	7

Sample	Pos.
1-20 -	1
2-20 -	2
7 -	3
std	4
8 -	5
3-19	6

171 - 1055

OUT - 1125

171 - 1325

OUT - 1355

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1-6
+ 2 Cans 1+2

Customer Sample # 1, 2, 3, 4, 5, 6
also can 1+2

ITU Piece # 2014-2020

Charge Date 7-25-69

Charge Time 1435

Discharge Date 7-25-69

Discharge Time 1505

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # 1294-73-2

Customer Sample # _____

ITU Piece # 1999

Charge Date 7-24-69

Charge Time 0545

Discharge Date 7-24-69

Discharge Time 0555

REMARKS:

10 Min in Core

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # 1274-73-1
1274-73-2

Customer Sample # _____

ITU Piece # 1945-1946

Charge Date 7-21-69

Charge Time 1320

Discharge Date 7-21-69

Discharge Time 1350

REMARKS:

30 Min. in Core

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B.G. Christensen
Customer Sample #

#1	2
2	
4	
5	
std	
6	

Customer Piece # 1 4 #2
ITU Piece # ¹(1935 thro 1939) ²(1940 thro 1944)

Charge Date 7-5-69

Charge Time See Below

Discharge Date 7-5-69

Discharge Time _____

REMARKS:

30 Min in Core

Sample #1	
	Pocket
2	1
4	2
5	3
std(1)	4
6	5

Sample #2	
sample	Pocket
11	1
12	2
13	3
std(2)	4
14	5

charge 0845

Discharge 0915

charge — 1000

Discharge — 1030

DECLASSIFIED

[Redacted]

DECLASSIFIED

Supplena

REMARKS:

14 hrs in per 1 to 6 can

Discharge Date 6-18-69

Discharge Time 1110

Charge Date 6-17-69

Charge Time 1118

Customer Sample #	1	4
	2	5
	3	6

ITV Piece # _____

Customer *Supplena*

Customer Piece # 1 thru 6

TISR-172
SAMPLE EXPOSURES

[Redacted]

TISR-172
SAMPLE EXPOSURES

Customer Rancetelli Customer Piece # G-1A Thru ~~G-10A~~ ^{G-8A}
Customer Sample # _____ ITU Piece # 1925 thru ¹⁹³² ~~1934~~

Charge Date 7-3-69 Charge Time See below
Discharge Date 7-3-69 Discharge Time _____

REMARKS:

Samples in R-2 KE

	<u>in</u>	<u>out</u>
G-1A	1316	1321
2A	1321	1326
3A	1327	1332
4A	1333	1338
5A	1338	1343
6A	1344	1349
7A	1350	1355
8A	1355	1400
9A	Reactor down at 1400	
10A	"	"

DECLASSIFIED

[REDACTED]

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer Rencitelli

Customer Piece # 1-2-3

Customer Sample # _____

ITU Piece # 1922-23-24

Charge Date 6-29-69

Charge Time 0820

Discharge Date 6-29-69

Discharge Time 1045

REMARKS:

R1-2-3

DECLASSIFIED

[REDACTED]

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1 - 4 (42) #1a

Customer Sample # _____

ITU Piece # 1910 - 1914

Charge Date 6-28-69

Charge Time 0922

Discharge Date 6-28-69

Discharge Time 0952

REMARKS:

Set 1

30 min in con

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Chustan

Customer Piece # 5-9 #2 al

Customer Sample # _____

ITU Piece # 1915-1919

Charge Date 6-28-69

Charge Time 1026

Discharge Date 6-28-69

Discharge Time 1056

REMARKS:

set 2
30 min in core

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Pancitelle

Customer Piece # none

Customer Sample # none

ITU Piece # 186.7

Charge Date 6-25-69

Charge Time 2047

Discharge Date 6-25-69

Discharge Time 2052

REMARKS:

Charged in KE-20 for 5 min
Wed. night -

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # ^{AL.}1-7-10-57d-15-17

Customer Sample # _____

ITU Piece # 1896 thru 1901

Charge Date 6-23-69

Charge Time 1305

Discharge Date 6-23-69

Discharge Time 1335

REMARKS:

Sample #1

<u>Sample</u>	<u>Pocket</u>
1	1
7	2
10	3
stb	4
15	5
17	6

DECLASSIFIED

6
5
4
3
2
1

es dms 27

Sample # 9

Discharge Date 6-23-69

Charge Date 6-23-69

Customer Sample # _____

Customer B. G. Christensen

100

Discbare Time

55741

Charge Time

1425

ITU Piece # 1902 thru 1907

Customer Piece # 22-25-31-57d-33-40

DUN-2816 RD
Page

[REDACTED]

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # _____

Customer Sample # 1294-72

ITU Piece # 1885 thru 1887

Charge Date 6-10-69

Charge Time 1710

Discharge Date 6-10-69

Discharge Time 1740

REMARKS:

Charge in core for 1/2 hour on
6-10-69 - Deliver on 6-11-69

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer J.M. Tanner

Customer Piece # 1 through 5

Customer Sample # 1-2-3-4
45

ITU Piece # 1880 through 1884

Charge Date 6-3-69

Charge Time 1310

Discharge Date 6-3-69

Discharge Time 1340

REMARKS:

DECLASSIFIED

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1-6

Customer Sample # Ser # 1

ITU Piece # 1869-1874

Charge Date 5-16-69

Charge Time 1333

Discharge Date 5-16-69

Discharge Time 1403

REMARKS:

DECLASSIFIED

[REDACTED]

DUN-2816 RD

Page _____

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 6-15

Customer Sample # Sx #2

ITU Piece # 1875-1879

Charge Date 5-16-69

Charge Time 1434

Discharge Date 5-16-69

Discharge Time 1504

REMARKS:

DECLASSIFIED

[REDACTED]

TISR-172
SAMPLE EXPOSURES

Customer Hansen

Customer Piece # _____

Customer Sample # 1, 2, 3, 4, 5, 6

ITU Piece # 1863 - 1868

Charge Date 5-13-69

Charge Time 0900

Discharge Date 5-13-69

Discharge Time 0930

REMARKS:

Leave in Room 8A 329
5-15-69

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer P. J. Hansen

Customer Piece # _____

Customer Sample # 1, 2, 3, 4, 5, 6

ITU Piece # 1858-1862

Charge Date 5-13-69

Charge Time 1045

Discharge Date 5-13-69

Discharge Time 1115

REMARKS:

Leave Samples in Cask in ^{Room} 8A
329 Bldg 5-15-69 afternoon

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # ~~785-2-1854~~

Customer Sample # 5, 6, 7+8

ITU Piece # 1850-1854

2nd set Std

Charge Date 5-10-69

Charge Time 1021

Discharge Date 5-10-69

Discharge Time 1051

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer J.R. Edwards

Customer Piece # 1

Customer Sample # 1

ITU Piece # 1856

Charge Date 5-9-69

Charge Time 1240

Discharge Date 5-10-69

Discharge Time 0900

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christiansen

Customer Piece # _____

Customer Sample # _____

ITU Piece # 1823-1827

Charge Date 4-5-69

Charge Time 1100

Discharge Date 4-5-69

Discharge Time 1130

REMARKS:

*pkt 1-2-4-5-6
al can in pkt 5*

1-2-5-6-7

Bill Olsen

Al Can in 6

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # Set 1

Customer Sample # _____

ITU Piece # 1846 - 1849

Charge Date 5-3-69

Charge Time ~~0845~~ 1235

Discharge Date 5-3-69

Discharge Time ~~0845~~ 1305

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Edwards

Customer Piece # 1

Customer Sample # 1

ITU Piece # 1841

Charge Date 4-25-69

Charge Time 0840

Discharge Date 4-25-69

Discharge Time 0845

REMARKS:

5 Min. in R-3 & Deliver ASAP

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Tanner

Customer Piece # _____

Customer Sample # 1
2
Std

ITU Piece # 1838
1839
1840

Charge Date See Below

Charge Time _____

Discharge Date _____

Discharge Time _____

REMARKS:

1/2 Hr in R-4 using pocket #1

	IN	OUT
#1	0930	1000
#2	1003	1033
Std	1035	1105

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer RANCITELLI

Customer Piece # none

Customer Sample # none

ITU Piece # 1828 THRU 1854

Charge Date 4-16-69

Charge Time 0910

Discharge Date 4-16-69

Discharge Time 0920

REMARKS:

Charge in core for 10 min,

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1

Customer Sample # _____

ITU Piece # 1822

Charge Date 4-2-69

Charge Time 1936

Discharge Date 4-2-69

Discharge Time 2006

REMARKS:

30 min. Fridge Can.

R-3

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Rancitelli

Customer Piece # _____

Customer Sample # _____

ITU Piece # 1817

Charge Date 3-22-69

Charge Time 0845

Discharge Date 3-23-69

Discharge Time 0845

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1 thru 8

Customer Sample # 1 Biological
2 Standards

ITU Piece # 1809 - 1816

Charge Date 3-15-69

Charge Time 1337

Discharge Date 3-15-69

Discharge Time 1407

REMARKS:

30 min in Core.

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Janner

Customer Piece # 1294-63

Customer Sample # Basalt no 89
plus Standard

ITU Piece # 1808

Charge Date 3-15-69

Charge Time 0949

Discharge Date 3-15-69

Discharge Time 1019

REMARKS:

$\frac{1}{2}$ hr in R³ Joe. 1 C Area

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer James

Customer Piece # _____

Customer Sample # _____

ITU Piece # 1805-1806-1807

Charge Date 3-12-69

Charge Time See below

Discharge Date 3-12-69

Discharge Time _____

REMARKS:

James —

1st - 0918-0948

2nd - 0948-1018

3rd - 1018-1048

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1-2-3 ①-4-5-6 ②

Customer Sample # _____

ITU Piece # 1797 thru 1804

Charge Date 3-8-69

Charge Time 0840

Discharge Date 3-8-69

Discharge Time 0910

REMARKS:

30 min in core
cans in position 4 & 8

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer CHRISTENSEN

Customer Piece # 7

Customer Sample # 1-3-5
STD.
7-8-9

ITU Piece # 1786 THRU 1792

Charge Date 3-1-69

Charge Time 1032

Discharge Date 3-1-69

Discharge Time 1102

REMARKS:

Charged in KE 2D QUICKIE FACILITY
PICKET
1 1
3 2
5 3
STD 4
7 5
8 6
9 7

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. G. Christensen

Customer Piece # 55-56-57-#2 & 58

Customer Sample # 55-56-57

ITU Piece # 1781-1782-1783-1784 & 1785

#2 & 58

Charge Date 2-22-69

Charge Time 1020

Discharge Date 2-22-69

Discharge Time 1050

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B. L. Christensen

Customer Piece # 51-52-53-1-54

Customer Sample # 51-52-53

ITU Piece # 1776-1777-1778-1779+1780

#1 + 54

Charge Date 2-22-69

Charge Time 0917

Discharge Date 2-22-69

Discharge Time 0947

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # _____

Customer Sample # 45, 46, 47
48, 49, 50
1 + 2

ITU Piece # 1765-1772

Charge Date 2-15-69

Charge Time 1035

Discharge Date 2-15-69

Discharge Time 1105

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 39-40-41-1-42-43-44

Customer Sample # _____

ITU Piece # 1734 thru 1741

Charge Date 2-8-69

Charge Time 0935

Discharge Date 2-8-69

Discharge Time 1005

REMARKS:

30 mm in case
#1 in pos. 4
#2 in pos. 8

582-2358

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer B.H. Christensen

Customer Piece # 1 through 8

Customer Sample # 12-16-18

ITU Piece # _____

1-21-22-24

7-No 2

Charge Date 1-25-69

Charge Time 0933

Discharge Date 1-26-69

Discharge Time 1003

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Christensen

Customer Piece # 1, 3, 4, ^{al} 1, 7, 20, 31, ^{al} 2

Customer Sample # _____

ITU Piece # 1713-1719

Charge Date 1-18-69

Charge Time 0845

Discharge Date 1-18-69

Discharge Time 0915

REMARKS:

DECLASSIFIED

DUN-2816 RD
Page _____

TISR-172
SAMPLE EXPOSURES

Customer Christman

Customer Piece # 2-5-6-8-10-11 ^{Can 1-2}

Customer Sample # _____

ITU Piece # 1699 thru 1706

Charge Date 1-11-69

Charge Time 1255

Discharge Date 21-11-69

Discharge Time 1325

REMARKS:

Can 1 in pos 4
Can 2 in pos 8

	1
2	1
5	2
6	3
Can 1	4
8	5
10	6
11	7
Can -	8

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer Janner

Customer Piece # _____

Customer Sample # Water

ITU Piece # 1698

Charge Date 1-7-69

Charge Time 1430

Discharge Date 1-7-69

Discharge Time 2030

REMARKS:

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer TANNERCustomer Piece # 0Customer Sample # 0ITU Piece # 1692Charge Date 1-6-69Charge Time 1300Discharge Date 1-7-69Discharge Time 1315REMARKS:

Charged in R-1 at KW for
24 hours,

DECLASSIFIED

TISR-172
SAMPLE EXPOSURES

Customer RANCITELLI

Customer Piece # 1-2-3 & 2 cans

Customer Sample # X

ITU Piece # 1693 THRU-1697

Charge Date 1-4-69

Charge Time 1003

Discharge Date 1-4-69

Discharge Time 1033

REMARKS:

Charged in Core @ KLV for
30 min.

DECLASSIFIED