

FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLES: ASPER

SHOT TIME: 0530

TAKEN BY: _____

CHECK TIME: 0730-120 Min, 0830-180 Min, 0930-240 Min,

	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	495-R	0803	7.90	8.55 153	8.0x10 ¹⁵		UCRL
2	495-L	0808	5.93	8.63 158	6.8x10 ¹⁵		UCRL
3	503-R ^{1/2}	0830	2.60	3.80 188	3.5x10 ¹⁵		UCRL
4	503-R ^{1/2}	0834	1.0	3.06 184	1.4x10 ¹⁵		AFOAT-1
5	503-L	0842	4.54	3.16 191	6.5x10 ¹⁵		UCRL
6	569-R	0847	1.52	3.28 197	2.2x10 ¹⁵		UCRL
7	569-L	0854	2.63	3.10 204	2.5x10 ¹⁵		UCRL
8	506-R	0901	1.92	3.51 211	2.1x10 ¹⁵		UCRL
9	506-L	0905	1.0	3.57 215	1.7x10 ¹⁵		UCRL
10	502-R	0916	4.06	3.76 226	7.2x10 ¹⁵		UCRL
11	502-L	0921	4.04	3.85 231	7.2x10 ¹⁵		UCRL
12	979-R ^{1/2} & 2/4	0926	1.1	3.98 236	2x10 ¹⁵		UCRL

NOTES: 979-R^{1/2} & 2/4 0933 3.42 4.05 213 6.5x10¹⁵ UCRL

All UCRL plgs

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW

REVIEW DATE: 3-7-77 DETERMINATION (CIRCLE NUMBER(S))
 AUTHORITY: DC DD 1. CLASSIFICATION RETAINED
 NAME: Paul D. 2. CLASSIFICATION CHANGED TO:
 REVIEW DATE: 12/2/99 3. CONTAINS NO DOE CLASSIFIED INFO
 AUTHORITY: DD 4. COORDINATE WITH: USAF
Joe King 5. CLASSIFICATION CANCELED
 6. CLASSIFIED INFO BRACKETED
 7. OTHER (SPECIFY): 50 pages

deklas per Air Force 11/14/97

Large 1.7/1.1

PRIVACY ACT MATERIAL REMOVED

5wc 8c 30005/16

AIRCRAFT DATA FORM

PILOT:	TAKEOFF TIME: 0720 18	SAMPLER CODE: Eot #hot 5
OBSERVER:	LANDING TIME: 0837	AIRCRAFT NUMBER: 506

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	43888	850						
OBSERVER	43091	860						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	42	42.5					
C	PENETRATION TIME (LOCAL)	0758	0807					
D'	PEAK CLOUD INTENSITY (R/HR)	11	10					
D''	AVERAGE CLOUD INTENSITY (R/HR)	8	6					
E	TIME IN CLOUD (MIN & SEC)	4:00	3:00					
F	EXPOSURE (INTEGRON IN R)	.3	.8					
G	COCKPIT BACKGROUND (R/HR)	1.5	1					
H	SAMPLE READING (WTIC IN R/HR)	8	11					
I	SQUEEGEE ON (YES OR NO)	No	No					
	INDICATED AIR SPEED (MPH)	210	210					

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)	.1
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)	.9 #9A
SAMPLE READING ON LANDING (WTIC IN R/HR)	6
TIME LANDING READINGS TAKEN	0839

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
42456	1740	42455	1340

PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM						SHOT TITLE: ASPEN					
PILOT:			TAKEOFF TIME: 0652			SAMPLER CODE: Hot Shot 16					
OBSERVER:			LANDING TIME: 0857			AIRCRAFT NUMBER: 979					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	43890	750									
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				51	47	52	51	47		
C	PENETRATION TIME (LOCAL)				0730	0736	0747	0810	0817		
D'	PEAK CLOUD INTENSITY (R/HR)				2	3	2.5	2	8		
D''	AVERAGE CLOUD INTENSITY (R/HR)				1	2	1.75	.5	.4		
E	TIME IN CLOUD (MIN & SEC)				3:00	5:00	5:00	1:00	2:00		
F	EXPOSURE (INTEGRON IN R)				.1	.3	.4	.6	.8		
G	COCKPIT BACKGROUND (R/HR)				.2	.4	.4	.4	1.3		
H	SAMPLE READING (WTIC IN R/HR)					2	3	4	4.5		
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED (MPH)				140	155	150	155	155		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.2							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.1 <i># 14A</i>							
SAMPLE READING ON LANDING (WTIC IN R/HR)				6							
TIME LANDING READINGS TAKEN				0900							
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
42162	1420		42161	1370							

PRIVACY ACT MATERIAL REMOVED

AFSWC FORM 0-379A
MAY 57

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PAGES

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AIRCRAFT DATA FORM						SUB-TITLE: ASPEN					
PILOT:			TAKEOFF TIME: 0500			SAMPLER CODE: RFL Opium 1					
OBSERVER:			LANDING TIME: 0853			AIRCRAFT NUMBER: 502					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	43873	1760									
OBSERVER	43874	1600									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				47	47	46	final			
C	PENETRATION TIME (LOCAL)				0810	0815	0820	0855			
D'	PEAK CLOUD INTENSITY (R/HR)				9	12	12				
D''	AVERAGE CLOUD INTENSITY (R/HR)				5	8	8				
E	TIME IN CLOUD (MIN & SEC)				5:00	5:00	3:00				
F	EXPOSURE (INTEGRON IN R)				.25	.5	.74	1.0			
G	COCKPIT BACKGROUND (R/HR)						1.2	0.8			
H	SAMPLE READING (WTIC IN R/HR)						30	20			
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED (MPH)				200	200	200				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.8							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.0 #6A							
SAMPLE READING ON LANDING (WTIC IN R/HR)				20							
TIME LANDING READINGS TAKEN				0855							
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
42452			2920			42452			2330		

PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM					SHOT TITLE						
PILOT:			TAKEOFF TIME:		SAMPLER CODE:						
			0710		Hot Shot 5						
OBSERVER:			LANDING TIME:		AIRCRAFT NUMBER:						
			0828		569						
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	43881	920									
OBSERVER	43885	770									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				39	37.5	38.5	38.5			
C	PENETRATION TIME (LOCAL)				0745	0750	0755	0800			
D'	PEAK CLOUD INTENSITY (R/HR)				7	6	10	15			
D''	AVERAGE CLOUD INTENSITY (R/HR)				3	5	7	6			
E	TIME IN CLOUD (MIN & SEC)				1:00	2:00	2:00	2:00			
F	EXPOSURE (INTEGRON IN R)				.25	.35	.55	.8			
G	COCKPIT BACKGROUND (R/HR)				.5	.5	.5	.5			
H	SAMPLE READING (WTIC IN R/HR)				5	7	10	12			
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED (MPH)				240	240	240	240			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.3							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.1							
SAMPLE READING ON LANDING (WTIC IN R/HR)				8							
TIME LANDING READINGS TAKEN				0830							
LEAD VEST:			PILOT:			OBSERVER:					
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO											
EXPERIMENTAL FILM DAGES											
CANOPY				INTEGRON							
NUMBER	READING			NUMBER	READING						
42458	1790			42457	1450						

PRIVACY ACT MATERIAL REMOVED

AFSWC FORM 0-379A MAY 57

OF _____ PAGES

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Swc 8c 30805/8

PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA		SHOT TITLE: ASFEN						
PILOT:		TAKEOFF TIME: 0610	SAMPLER CODE: Hot Shot 2					
OBSERVER:		LANDING TIME: 0748	AIRCRAFT NUMBER: 495					
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER					
PILOT	49832	1410						
OBSERVER	49883	1220						
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	15/28	23/24	22				
C	PENETRATION TIME (LOCAL)	0724	0729	0724				
D'	PEAK CLOUD INTENSITY (R/HR)	15	12	12				
D''	AVERAGE CLOUD INTENSITY (R/HR)	10	7	5				
E	TIME IN CLOUD (MIN & SEC)	1:30	3:10	1:08				
F	EXPOSURE (INTEGRON IN R)	.3	.65	.82				
G	COCKPIT BACKGROUND (R/HR)	.6	1.4	1.5				
H	SAMPLE READING (WTIC IN R/HR)	1	18	22				
I	SQUEEGEE ON (YES OR NO)	No						
	INDICATED AIR SPEED (MPH)	320	300	320				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)		1.7						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		1.2						
SAMPLE READING ON LANDING (WTIC IN R/HR)		14						
TIME LANDING READINGS TAKEN		0730						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		PILOT:		OBSERVER:				
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER	READING	NUMBER	READING					
42439	2910	42438	1860					

Swc BC 30005/16

FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:
CEDAR

SHOT TIME: :

0530

TAKEN BY

CHECK TIME:

0800-2 1/2 Hours = 150 Min

PRIVACY ACT MATERIAL REMOVED

	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	496-R	0814	2.17	2.66	2.5x10 ¹⁵		UCRL
2	496-L	0819	1.96	2.81	2.5x10 ¹⁵		UCRL
3	503-R	0823	1.76	2.88	2.3x10 ¹⁵		UCRL
4	503-L	0828	1.86	3.0	2.5x10 ¹⁵		UCRL
5	506-R	0834	0.64	3.07	8.5x10 ¹⁴		UCRL
6	506-L	0840	0.47	3.17	6.5x10 ¹⁴		UCRL
7	980-R	0846	0.35	3.26	5.0x10 ¹⁴		UCRL
8	980-L	0851	0.35	3.35	5.4x10 ¹⁴		UCRL
9	982-R 1/2	0927	0.07	3.95	1.5x10 ¹⁴		UCRL
10	982-R 1/2	0928	0.075	3.95	1.5x10 ¹⁴		UCRL
11	982-L	0935	0.13	4.1	2.5x10 ¹⁴		UCRL
12	981-R 1/2	0938	0.11	4.1	2.0x10 ¹⁴		UCRL
NOTES:							
	981-R 1/2	0940	0.092	4.11	1.9x10 ¹⁴		UCRL
	981-L	0945	0.15	4.25	3.0x10 ¹⁴		UCRL
All pigs are UCRL type, no factoring.							
<p><i>Legend 7/1/50</i></p>							

sw 8e 30005/24

AIRCRAFT DATA FORM

SHOOTER
CEDAR

PILOT:	TAKEOFF TIME: 0650	SAMPLER CODE: HARDTIME 16
OBSERVER:	LANDING TIME: 0920	AIRCRAFT NUMBER: 932

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48487	228						
OBSERVER								

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	.20	.20					
C	PENETRATION TIME (LOCAL)	0734	0738	0747				
D'	PEAK CLOUD INTENSITY (R/HR)	.5	.5					
D''	AVERAGE CLOUD INTENSITY (R/HR)	.3	.3					
E	TIME IN CLOUD (MIN & SEC)	1:10	3:10					
F	EXPOSURE (INTEGRON IN R)	.1	.1					
G	COCKPIT BACKGROUND (R/HR)	05	.1					
H	SAMPLE READING (WTIC IN R/HR)	5	1					
I	SQUEEGEE ON (YES OR NO)	Yes	Yes					
	INDICATED AIR SPEED (MPH)	150	150					

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) **.05**

TOTAL EXPOSURE ON LANDING (INTEGRON IN R) **.25**

SAMPLE READING ON LANDING (WTIC IN R/HR) **1**

TIME LANDING READINGS TAKEN

0920

LEAD VEST: YES NO

PILOT:

OBSERVER:

EXPERIMENTAL FILM DAGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
48571	295	48572	235

AFS#C FORM MAY 57

OF PAGES

PRIVACY ACT MATERIAL REMOVED

CONFIDENTIAL
50080 30005/24

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AIRCRAFT DATA FORM						SHOT TITLE: CEDAR					
PILOT:			TAKEOFF TIME: 0630			SAMPLER CODE: HARDTDC 2					
OBSERVER:			LANDING TIME: 0732			AIRCRAFT NUMBER: 503					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	48483	679									
OBSERVER	48481	659									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				28	26					
C	PENETRATION TIME (LOCAL)				0645	0652					
D'	PEAK CLOUD INTENSITY (R/HR)				5	4.5					
D''	AVERAGE CLOUD INTENSITY (R/HR)				2	2					
E	TIME IN CLOUD (MIN & SEC)				3:15	11:00					
F	EXPOSURE (INTEGRON IN R)				.2	.8					
G	COCKPIT BACKGROUND (R/HR)				.5	.6					
H	SAMPLE READING (WTIC IN R/HR)				0	6					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED (MPH)				230	250					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.25							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.2							
SAMPLE READING ON LANDING (WTIC IN R/HR)				4							
TIME LANDING READINGS TAKEN				0730							
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
48519	1580		48580	15920							

PRIVACY ACT MATERIAL REMOVED

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PRIVACY ACT MATERIAL REMOVED

CONFIDENTIAL		SHOT TITLE: CEDAR									
PILOT:		TAKEOFF TIME: 0620	SAMPLER CODE: HARDTME 3								
OBSERVER:		LANDING TIME: 0807	AIRCRAFT NUMBER: 506								
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	48486	374									
OBSERVER	48485	303									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				35	32	31	31	39		
C	PENETRATION TIME (LOCAL)				0650	0700	0708	0721			
D'	PEAK CLOUD INTENSITY (R/HR)				.68	1.5	2	1.3			
D''	AVERAGE CLOUD INTENSITY (R/HR)				.5	.6	.6	.6			
E	TIME IN CLOUD (MIN & SEC)				3:50	5:17	5:17	4:12			
F	EXPOSURE (INTEGRON IN R)				0	.06	.16	.22			
G	COCKPIT BACKGROUND (R/HR)				0	.06	.16	.12			
H	SAMPLE READING (WTIC IN R/HR)				1	2.8	6.9	6.1			
I	SQUEEGEE ON (YES OR NO)				Yes	Yes	Yes	Yes			
	INDICATED AIR SPEED (MPH)				250	290	290	230			
COCKPIT INTENSITY ON LANDING (RASCEL IN R/HR)					.02						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.23 .23						
SAMPLE READING ON LANDING (WTIC IN R/HR)					3.6						
TIME LANDING READINGS TAKEN					0810						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
48598	510		48599	40							

~~CONFIDENTIAL~~
208C 30005/24

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AIRCRAFT DATA FORM						SHOT TITLE: CEDAR					
PILOT:			TAKEOFF TIME: 0605			SAMPLER CODE: HARDTIME 1					
OBSERVER:			LANDING TIME: 0722			AIRCRAFT NUMBER: 496					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	48484	703									
OBSERVER	48482	780									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				25	25					
C	PENETRATION TIME (LOCAL)				0635	0638					
D'	PEAK CLOUD INTENSITY (R/HR)				9	9					
D''	AVERAGE CLOUD INTENSITY (R/HR)				4	4					
E	TIME IN CLOUD (MIN & SEC)				150	11:10					
F	EXPOSURE (INTEGRON IN R)				1	.8					
G	COCKPIT BACKGROUND (R/HR)				0	1.0					
H	SAMPLE READING (WTIC IN R/HR)				5	12					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED (MPH)				310	310					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					XX	.4					
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					XX	1.1					
SAMPLE READING ON LANDING (WTIC IN R/HR)					7						
TIME LANDING READINGS TAKEN					0720						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
48581	1410		48582	1080							

PRIVACY ACT MATERIAL REMOVED

AFS#C FORM MAY 57 0-379 ~~CONFIDENTIAL~~ PAGES

82088 30005/94

AIRCRAFT DATA FORM

SHOT TITLE:

CEAR

PILOT:

TAKEOFF TIME:

SAMPLER CODE:

OBSERVER:

LANDING TIME:

AIRCRAFT NUMBER:

0630

HARDTICE 11

0830

980

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48440	464						
OBSERVER								

DATA CARDS

CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	45	45					
C	PENETRATION TIME (LOCAL)	0712	0714					
D'	PEAK CLOUD INTENSITY (R/HR)	26	22					
D''	AVERAGE CLOUD INTENSITY (R/HR)	15	14					
E	TIME IN CLOUD (MIN & SEC)	5:00	6:00					
F	EXPOSURE (INTEGRON IN R)	.35	.6					
G	COCKPIT BACKGROUND (R/HR)	.2	.3					
H	SAMPLE READING (WTIC IN R/HR)	5	6					
I	SQUEEGEE ON (YES OR NO)	Yes	Yes					
	INDICATED AIR SPEED (MPH)	160	160					

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)

.1

TOTAL EXPOSURE ON LANDING (INTEGRON IN R)

.7

SAMPLE READING ON LANDING (WTIC IN R/HR)

8

TIME LANDING READINGS TAKEN

0830

LEAD VEST:



YES



NO

PILOT:

OBSERVER:

EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
- 8575	650	- 8578	570

AFS#C FORM
MAY 57

0-379A

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30080 300057/24

PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM

SHEET TITLE:
CEDAR

PILOT:	TAKEOFF TIME: 0610	SAMPLER CODE: HAERTIME 15
OBSERVER:	LANDING TIME: 0909	AIRCRAFT NUMBER: 981

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48488	729						
OBSERVER								

DATA CARDS

CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	49	49					
C	PENETRATION TIME (LOCAL)	0723	0730					
D'	PEAK CLOUD INTENSITY (R/HR)	1	1.5					
D''	AVERAGE CLOUD INTENSITY (R/HR)	.5	.7					
E	TIME IN CLOUD (MIN & SEC)	2:00	2:00					
F	EXPOSURE (INTEGRON IN R)	.2	.2					
G	COCKPIT BACKGROUND (R/HR)	0	0					
H	SAMPLE READING (WTIC IN R/HR)	2	5					
I	SQUEEGEE ON (YES OR NO)	Yes	Yes					
	INDICATED AIR SPEED (MPH)							

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)

TOTAL EXPOSURE ON LANDING (INTEGRON IN R)

SAMPLE READING ON LANDING (WTIC IN R/HR)

TIME LANDING READINGS TAKEN **0915**

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
48573	1790	48514	720

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AIRCRAFT DATA FORM					SHOT TITLE: FIR					
PILOT:			TAKEOFF TIME: 0550		SAMPLER CODE: Hot Shot Brave I					
OBSERVER:			LANDING TIME: 0750		AIRCRAFT NUMBER: 498					
CREW EXPOSURE DATA										
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	34891	225	25178	362						
OBSERVER	34862	197	34880	203						
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			29/26	26.5	27				
C	PENETRATION TIME (LOCAL)			49.5 54	58 02 1/2	05 1/2 11				
D'	PEAK CLOUD INTENSITY (R/HR)			1.4	1.0	1.3				
D''	AVERAGE CLOUD INTENSITY (R/HR)			1.0	.70 XXX	.8 XXX				
E	TIME IN CLOUD (MIN & SEC)			4:30 XXXX	4:30	5:30				
F	EXPOSURE (INTEGRON IN R)			.1	.1	Inep				
G	COCKPIT BACKGROUND (R/HR)			.1	.1	.1				
H	SAMPLE READING (WTIC IN R/HR)			4	4	5				
I	SQUEEGEE ON (YES OR NO)			No	No	No				
	INDICATED AIR SPEED (MPH) KNOTS			300	300	300				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.1						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.2						
SAMPLE READING ON LANDING (WTIC IN R/HR)				4						
TIME LANDING READINGS TAKEN				0750						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				PILOT: <i>[Signature]</i> OBSERVER: <i>[Signature]</i>						
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER	READING		NUMBER	READING						
34827	465		34816	370						

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AIRCRAFT DATA FORM						SHOT TITLE: Fir		
PILOT:			TAKEOFF TIME: 0748			SAMPLER CODE: HOT SHOT BRAVO 15		
OBSERVER: None			LANDING TIME: 0907			AIRCRAFT NUMBER: 980		
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	25444	1340	34890	1350				
OBSERVER								
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	-1	-1	-1.5	-1.5	-1.5		
C	PENETRATION TIME (LOCAL)	0733	0744	0749	0759	0810		
D'	PEAK CLOUD INTENSITY (R/HR)	4	1.5	6	6	5		
D''	AVERAGE CLOUD INTENSITY (R/HR)	2	1	5	4	3		
E	TIME IN CLOUD (MIN & SEC)	3:00	3:00	5:00	5:00	3:00		
F	EXPOSURE (INTEGRON IN R)	.5	.7	.9	1.1	1.3		
G	COCKPIT BACKGROUND (R/HR)	2	3	1	1.5	1.2		
H	SAMPLE READING (WTIC IN R/HR)	20	18	24	36	36		
I	SQUEEGEE ON (YES OR NO)	Yes	Yes	Yes	Yes	Yes		
	INDICATED AIR SPEED (KNOTS)	130	130	130	130	130		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)		.2						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		1.7						
SAMPLE READING ON LANDING (WTIC IN R/HR)		2.2						
TIME LANDING READINGS TAKEN		0907						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
34835		2370		34823		2140		

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AIRCRAFT DATA FORM						SHOT TITLE: FTR					
PILOT:				TAKEOFF TIME: 0700		SAMPLER CODE: HOT SHOT BRAVO 16					
OBSERVER: NONE				LANDING TIME: 0910		AIRCRAFT NUMBER: 3977					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	25447	857	34881	901							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				-2	-2	-2.5	-4			
C	PENETRATION TIME (LOCAL)				0746	0756	0808	0820			
D'	PEAK CLOUD INTENSITY (R/HR)				5	2	3	3			
D''	AVERAGE CLOUD INTENSITY (R/HR)				3	1.2	1.5	1.8			
E	TIME IN CLOUD (MIN & SEC)				2:00	2:30	4:00	10:00			
F	EXPOSURE (INTEGRON IN R)				.5	.6	.9	1.3			
G	COCKPIT BACKGROUND (R/HR)				.2	.2	.5	.3			
H	SAMPLE READING (WTIC IN R/HR)				11	12	18	20			
I	SQUEEGEE ON (YES OR NO)				Yes	Yes	Yes	Yes			
	INDICATED AIR SPEED (KNOTS)				150	150	150	150			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					0						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.5						
SAMPLE READING ON LANDING (WTIC IN R/HR)					14						
TIME LANDING READINGS TAKEN					0910						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				PILOT:		OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
34836			1570			34822			1240		

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AIRCRAFT DATA FORM						SHOT TITLE: FIR				
PILOT:			TAKEOFF TIME: 0622			SAMPLER CODE: HOT SHOT 23				
OBSERVER: None			LANDING TIME: 0830			AIRCRAFT NUMBER: 981				
CREW EXPOSURE DATA										
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	25876	7	34882	780						
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			-8	-8					
C	PENETRATION TIME (LOCAL)			16	0732					
D'	PEAK CLOUD INTENSITY (R/HR)			18	13					
D''	AVERAGE CLOUD INTENSITY (R/HR)			15	7					
E	TIME IN CLOUD (MIN & SEC)			6:00	7:00					
F	EXPOSURE (INTEGRON IN R)			18	1.5					
G	COCKPIT BACKGROUND (R/HR)			.2	.2					
H	SAMPLE READING (WTIC IN R/HR)			20	27					
I	SQUEEGEE ON (YES OR NO)			Yes	Yes					
	INDICATED AIR SPEED (KNOTS)			180	180					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.15						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.8						
SAMPLE READING ON LANDING (WTIC IN R/HR)				26						
TIME LANDING READINGS TAKEN				0830						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:				
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER		READING		NUMBER		READING				
34834		1640		34825		1570				

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AIRCRAFT DATA FORM					SHOT TITLE: FIR						
PILOT:			TAKEOFF TIME:		SAMPLER CODE: HOT SHOT BRAVO II						
OBSERVER:			LANDING TIME: 0858		AIRCRAFT NUMBER: 502						
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	25177	792	34877	771							
OBSERVER	25176	835	34886	736							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				40	40	41	43.5			
C	PENETRATION TIME (LOCAL)				0656	0706	0712	0730			
D'	PEAK CLOUD INTENSITY (R/HR)				3	2	1	.8			
D''	AVERAGE CLOUD INTENSITY (R/HR)				2	1	1	.6			
E	TIME IN CLOUD (MIN & SEC)				6:00	4:00	12:00	132			
F	EXPOSURE (INTEGRON IN R)				.2	.4	.6	1			
G	COCKPIT BACKGROUND (R/HR)				.1	.5	.5	.2			
H	SAMPLE READING (WTIC IN R/HR)				8	8	10	10			
I	SQUEEGEE ON (YES OR NO)										
	INDICATED AIR SPEED XXX Knots				450	450	450	450			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					XXX	.1					
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.2						
SAMPLE READING ON LANDING (WTIC IN R/HR)					3						
TIME LANDING READINGS TAKEN					0858						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM DAGES											
CANOPY				INTEGRON							
NUMBER		READING		NUMBER				READING			
34847		3200		34819				1100			

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(AFR 190-16)

500-20-20-15/2

AIRCRAFT FORM CONFIDENTIAL		SHOT TITLE: FIR
PILOT:	TAKEOFF TIME: 0605	SAMPLER CODE: HOT SHOT BRAVO III
OBSERVER:	LANDING TIME: 0735	AIRCRAFT NUMBER: 500

CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	34833	230	25770	236				
OBSERVER	34857	198	34893	199				

DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	48	4.3					
C	PENETRATION TIME (LOCAL)	0651	0700					
D'	PEAK CLOUD INTENSITY (R/HR)	4	3					
D''	AVERAGE CLOUD INTENSITY (R/HR)	1.5	1.2					
E	TIME IN CLOUD (MIN & SEC)	6:00	3:00					
F	EXPOSURE (INTEGRON IN R)	.2	.2					
G	COCKPIT BACKGROUND (R/HR)	.1	.2					
H	SAMPLE READING (WTIC IN R/HR)	6	7					
I	SQUEEGEE ON (YES OR NO)	No	No					
	INDICATED AIR SPEED (MPH) KNOTS	195	200					

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)	0
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)	.4
SAMPLE READING ON LANDING (WTIC IN R/HR)	1.6
TIME LANDING READINGS TAKEN	0734

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES			
CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
34846	48.5	34857	46.6

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FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE: FIR	
SHOT TIME: 0550				TAKEN BY: [REDACTED]			
CHECK TIME: 0830-160 Min, 0900-190 Min, 0930-220 Min							
NOTE 1: All UCRL pigs were assumed to be of same thickness as b-57 LASL pigs and thus all reading were multiplied by 0.75							
	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	500-R	0801	0.25	131	2.625x10 ¹⁴		UCRL
2	500-L	0806	0.20	136	2.175x10 ¹⁴		UCRL
3	498-R/2	0809	0.61	139	6.83x10 ¹⁴		UCRL
4	498-R/4	0813	0.25	143	2.43x10 ¹⁴		AFOAT
5	498-R/4	0816	0.20	146	2.40x10 ¹⁴		AFOAT
6	498-L	0820	1.075	150	1.28x10 ¹⁵		UCRL
7	901-R/4	0841	0.44	171	6.30x10 ¹⁴		UCRL
8	901-R/4	0844	0.42	174	6.25x10 ¹⁴		UCRL
9	901-R/2	0846	0.97	176	1.35x10 ¹⁵		UCRL
10	901-L	0850	1.78	180	2.71x10 ¹⁵		UCRL
11	502-R	0905	1.36	195	2.33x10 ¹⁵		UCRL
12	502-L	0909	1.24	199	2.03x10 ¹⁵		UCRL
13	980-R	0929	3.02	204	5.33x10 ¹⁵		UCRL
14	980-L	0917	3.00	207	5.40x10 ¹⁵		UCRL
15	977-R	0921	1.67	211	3.45x10 ¹⁵		UCRL
16	977-L	0925	1.47	215	2.78x10 ¹⁵		UCRL
NOTE 2: LASL nomograph was used following assumption in note 1 above							

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FILTER RECOVERY DATA COLLECTION SHEET

HICKORY

SHOT TIME: 1200 Hours/20 June 58

TAKEN BY

CHECK TIME 1500 Hours 3 hours or 180 Minutes

	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	503-R	1517	3.75	3.28	5.8X10 ¹⁵		UCRL
2	503-L	1522	2.85	3.37	4.2X10 ¹⁵		UCRL
3	500-R	1528	1.16	3.47	1.9X10 ¹⁵		UCRL
4	500-L	1535	0.86	3.58	1.4X10 ¹⁵		UCRL
5*	506-R ₁	1545	0.33	3.75	5.8X10 ¹⁵		UCRL
6*	506-R ₂	1548 1548	0.31 0.31	3.80 3.80	5.7X10 ¹⁵ 5.7X10¹⁵		UCRL
7	506-L	1555	0.108	3.92	7.8X10 ¹⁵		UCRL
8*	198-R ₁	1622	0.80	4.38	1.6X10 ¹⁵		UCRL
9*	198-R ₂	1623	0.75	4.37	1.7X10 ¹⁵		UCRL
10	198-L	1628	1.35	4.47	3.0X10 ¹⁵		UCRL
11							
12							

NOTES: * Livermore pigs with small I.D. all others are Livermore pigs with large I.D.

Samples 3,4,5,6, and 7 above had large holes in paper with about 1/3 of sample missing.

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AIRCRAFT DATA FORM

PILOT:	TAKEOFF TIME: 1330	SAMPLER CODE: Hardline 4
OBSERVER:	LANDING TIME: 1613	AIRCRAFT NUMBER: 498

CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48433	440						
OBSERVER	48434	460						

DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	10-12						
C	PENETRATION TIME (LOCAL)	1510						
D'	PEAK CLOUD INTENSITY (R/HR)	15						
D''	AVERAGE CLOUD INTENSITY (R/HR)	7						
E	TIME IN CLOUD (MIN & SEC)	37:00						
F	EXPOSURE (INTEGRON IN R)	.75						
G	COCKPIT BACKGROUND (R/HR)	.4						
H	SAMPLE READING (WTIC IN R/HR)	6						
I	SQUEEGEE ON (YES OR NO)	No						
	INDICATED AIR SPEED (MPH)	250						

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)	.25
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)	1.05
SAMPLE READING ON LANDING (WTIC IN R/HR)	4
TIME LANDING READINGS TAKEN	1612

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES			
CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
48555	1220	48554	740

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AIRCRAFT DATA FORM

PILOT:	TAKEOFF TIME: 13 0	SAMPLER CODE: HARDT 1
OBSERVER:	LANDING TIME: 1506	AIRCRAFT NUMBER: 500

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48426	860						
OBSERVER	48426	720						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	23	23	22	21/20			
C	PENETRATION TIME (LOCAL)	1338	1347	1351	1400			
D'	PEAK CLOUD INTENSITY (R/HR)	.8	.3	8	7			
D''	AVERAGE CLOUD INTENSITY (R/HR)	.3	.1	2	1.5			
E	TIME IN CLOUD (MIN & SEC)	5:00	2:50	2:00	1:30			
F	EXPOSURE (INTEGRON IN R)	.05	.05	.1	.78			
G	COCKPIT BACKGROUND (R/HR)	0	0	.1	0.8			
H	SAMPLE READING (WTIC IN R/HR)	0	0	1	3			
I	SQUEEGEE ON (YES OR NO)	No						
	INDICATED AIR SPEED (MPH)	310						

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) **.3**

TOTAL EXPOSURE ON LANDING (INTEGRON IN R) **1.15**

SAMPLE READING ON LANDING (WTIC IN R/HR) **2**

TIME LANDING READINGS TAKEN **1506**

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
48559	1760	48558	1090

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AIRCRAFT DATA FORM						ASMO TITLE HICKOPY					
PILOT: _____			TAKEOFF TIME: 1310			SAMPLER CODE: HAPPTIME 2					
OBSERVER: _____			LANDING TIME: 1515			AIRCRAFT NUMBER: 506					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	48430	570									
OBSERVER	48432	480									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				184	184	17/18	16/18	16		
C	PENETRATION TIME (LOCAL)				1340	1400	1405	1425	1440		
D'	PEAK CLOUD INTENSITY (R/HR)				1	3.5	5	3	1		
D''	AVERAGE CLOUD INTENSITY (R/HR)				.2	2.5	2	1	.2		
E	TIME IN CLOUD (MIN & SEC)				1:30	2:00	2:45	4:10	3:50		
F	EXPOSURE (INTEGRON IN R)				0	.05	.15	.3	.45		
G	COCKPIT BACKGROUND (R/HR)				.1	0	.1	.1	.2		
H	SAMPLE READING (WTIC IN R/HR)				0	0	2	6	8		
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED (MPH)				350	350	340	310	330		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.2						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					.55						
SAMPLE READING ON LANDING (WTIC IN R/HR)					8						
TIME LANDING READINGS TAKEN					1515						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT: _____			OBSERVER: _____					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING			NUMBER	READING						
48553	1490			48552	950						

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AIRCRAFT DATA FORM					SHOT TITLE: HICKORY				
PILOT:			TAKEOFF TIME: 1325		SAMPLER CODE: HAYTIME 3				
OBSERVER:			LANDING TIME: 1505		AIRCRAFT NUMBER: 503				
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	48429	670							
OBSERVER	48427	690							
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				11X	9-11	9-12	9-12	
C	PENETRATION TIME (LOCAL)				11:10	11:10	11:10	11:10	
D'	PEAK CLOUD INTENSITY (R/HR)				3	4	3.5	4	
D''	AVERAGE CLOUD INTENSITY (R/HR)				1	2	2	2	
E	TIME IN CLOUD (MIN & SEC)				8:00	12:30		25:45	
F	EXPOSURE (INTEGRON IN R)				.2	.3	.45	.8	
G	COCKPIT BACKGROUND (R/HR)				3	1	1	1	
H	SAMPLE READING (WTIC IN R/HR)				4	8	8	8	
I	SQUEEGEE ON (YES OR NO)				No				
	INDICATED AIR SPEED (MPH)				270				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.7				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.25				
SAMPLE READING ON LANDING (WTIC IN R/HR)					7				
TIME LANDING READINGS TAKEN					1505				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:		OBSERVER:				
EXPERIMENTAL FILM GADGES									
CANOPY				INTEGRON					
NUMBER	READING			NUMBER	READING				
Lost				Lost					

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FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE: NUTMEG	
SHOT TIME: 0920				TAKEN BY			
CHECK TIME: 0930-10 Min, 1000-40 Min, 1030-70 Min, 1100-100 Min							
	A/C - SAMPLE	READING TIME	READING R/HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	501-R	1055	8.76	95	6.23×10^{15}		UCRL
2	501-L	1108	6.80	108	5.7×10^{15}		UCRL
3	496 501-R	1112	5.84	112	5.1×10^{15}		UCRL
4	496 501-L	1119	5.38	119	5.03×10^{15}		UCRL
*	502-R3/4	1124	2.37	124	3.0×10^{15}		UCRL
6	502-R $\frac{1}{2}$	1126	0.85	126	0.9×10^{15}		AFOAT-1
7	502-L	1132	2.0	132	2.1×10^{15}		UCRL
*	500-R3/4 500-R3/4	1141	1.19	141	1.7×10^{15}		UCRL
9	500-R $\frac{1}{2}$	1142	0.335	142	3.75×10^{14}		AFOAT-1
10	500-L	1149	0.60	149	0.75×10^{15}		UCRL
11	569-R	1155	4.71	155	6.00×10^{15}		UCRL
12	569-L	1200	4.01	160	5.33×10^{15}		UCRL
NOTES:							
	504-R	1207	2.22	167	3.08×10^{15}		UCRL
	504-L	1213	2.09	173	3.00×10^{15}		UCRL
* NOTICE: * F-84 type LASL pigs - actual fissions							
All others are UCRL type pigs - all fissions other than 502-R3/4							
and 500-R3/4 were calculated on LASL nomograph and multiplied							
by 0.75							

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AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME:			SAMPLER CODE:			
			1010			Hot Shot 5			
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:			
			1130			504			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16292	680							
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				13000	13000			
C	PENETRATION TIME (LOCAL)								
D'	PEAK CLOUD INTENSITY (R/HR)				0.2	0.4			
D''	AVERAGE CLOUD INTENSITY (R/HR)				Not Logged				
E	TIME IN CLOUD (MIN & SEC)				125	145			
F	EXPOSURE (INTEGRON IN R)				.2	.5			
G	COCKPIT BACKGROUND (R/HR)				.02	0.3			
H	SAMPLE READING (WTIC IN R/HR)				0	0			
I	SQUEEGEE ON (YES OR NO)				Yes				
	INDICATED AIR SPEED (MPH)				Not Logged				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					XXX 0.2				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.1				
SAMPLE READING ON LANDING (WTIC IN R/HR)					0				
TIME LANDING READINGS TAKEN					1446				
LEAD VEST:			PILOT:			OBSERVER:			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER	READING			NUMBER	READING				
16338	1280			35283	DAMAGED				

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566-50-30005/1

AIRCRAFT DATA FORM

SHOT TITLE:

1011-70

PILOT:

TAKEOFF TIME:

1011

SAMPLER CODE:

Hot Shot 6

OBSERVER:

LANDING TIME:

1135

AIRCRAFT NUMBER:

569

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	16270	970						
OBSERVER	16294	670						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	16						
C	PENETRATION TIME (LOCAL)	1105						
D'	PEAK CLOUD INTENSITY (R/HR)	24						
D''	AVERAGE CLOUD INTENSITY (R. HR)	8						
E	TIME IN CLOUD (MIN & SEC)	2:15						
F	EXPOSURE (INTEGRON IN R)	.65						
G	COCKPIT BACKGROUND (R/HR)	1						
H	SAMPLE READING (WTIC IN R/HR)	25						
I	SQUEEGEE ON (YES OR NO)	Yes						
	INDICATED AIR SPEED (MPH)	340						

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)

.65

TOTAL EXPOSURE ON LANDING (INTEGRON IN R)

1.15

SAMPLE READING ON LANDING (WTIC IN R/HR)

20

TIME LANDING READINGS TAKEN

1136

LEAD VEST:

YES

NO

PILOT:

OBSERVER:

EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
16329	1070	25290	1080

AFS#C FORM 1-379A
MAY 57

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PRIVACY ACT MATERIAL REMOVED

File # 10-7-57

PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: NUTMEG		
PILOT:			TAKEOFF TIME: 0946			SAMPLER CODE: Hot Shot J		
OBSERVER:			LANDING TIME: 1105			AIRCRAFT NUMBER: 502		
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	16261	460						
OBSERVER								
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	16	16					
C	PENETRATION TIME (LOCAL)	1040	1040					
D'	PEAK CLOUD INTENSITY (R/HR)	32	32					
D''	AVERAGE CLOUD INTENSITY (R/HR)	15	20					
E	TIME IN CLOUD (MIN & SEC)	1:00	1:10					
F	EXPOSURE (INTEGRON IN R)	.3	.7					
G	COCKPIT BACKGROUND (R/HR)	.4	.5					
H	SAMPLE READING (WTIC IN R/HR)	9	18					
I	SQUEEGEE ON (YES OR NO)	Yes	Yes					
	INDICATED AIR SPEED (MPH)	360	360					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)		.4						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		XX 1.21						
SAMPLE READING ON LANDING (WTIC IN R/HR)		12						
TIME LANDING READINGS TAKEN		1117						
LEAD VEST: <input type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM DADGES								
CANOPY				INTEGRON				
NUMBER	READING		NUMBER	READING				
16337	1140		35296	875				

[REDACTED] 500-80-7005/5

PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: NUTMEG			
PILOT:			TAKEOFF TIME: 0930			SAMPLER CODE: Hot hot 2			
OBSERVER:			LANDING TIME: 1046			AIRCRAFT NUMBER: 501			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16273	1560							
OBSERVER	16275	1300							
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				11	11.5			
C	PENETRATION TIME (LOCAL)				19	21			
D'	PEAK CLOUD INTENSITY (R/HR)				30	55			
D''	AVERAGE CLOUD INTENSITY (R/HR)				20	40			
E	TIME IN CLOUD (MIN & SEC)				1:00	1:00			
F	EXPOSURE (INTEGRON IN R)				.7	.7			
G	COCKPIT BACKGROUND (R/HR)				1.5	.4			
H	SAMPLE READING (WTIC IN R/HR)				20	35			
I	SQUEEGEE ON (YES OR NO)				Yes	Yes			
	INDICATED AIR SPEED (MPH)				380	390			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					2.5				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.8				
SAMPLE READING ON LANDING (WTIC IN R/HR)					24				
TIME LANDING READINGS TAKEN					45				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER	READING			NUMBER	READING				
16335	25740			35284	1970				

[REDACTED]

5660-90-3000 5/1

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AIRCRAFT DATA FORM						SHOT TITLE:					
PILOT:			TAKEOFF TIME:			SAMPLER CODE:					
			0831			Hot Shot 1					
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:					
			1045			196					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	16269	740									
OBSERVER	16359	800									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				6	18					
C	PENETRATION TIME (LOCAL)				0028	0030					
D'	PEAK CLOUD INTENSITY (R/HR)				20	25					
D''	AVERAGE CLOUD INTENSITY (R/HR)				5	10					
E	TIME IN CLOUD (MIN & SEC)				0:15	1:00					
F	EXPOSURE (INTEGRON IN R)				.25	.7					
G	COCKPIT BACKGROUND (R/HR)				.6	1.4					
H	SAMPLE READING (WTIC IN R/HR)				8	20					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED (MPH)				120	185					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.9							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.3							
SAMPLE READING ON LANDING (WTIC IN R/HR)				14							
TIME LANDING READINGS TAKEN				1145							
LEAD VEST:			PILOT:			OBSERVER:					
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO											
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
16347	980		35289	1160							

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SuC-PC-3000/8

PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: SYCAMORE			
PILOT:			TAKEOFF TIME: 1425			SAMPLER CODE: Hot Shot 5			
OBSERVER:			LANDING TIME: 1712			AIRCRAFT NUMBER: 504			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16915	2260							
OBSERVER	16918	2020							
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				19.3				
C	PENETRATION TIME (LOCAL)				1641				
D'	PEAK CLOUD INTENSITY (R/HR)				30				
D''	AVERAGE CLOUD INTENSITY (R/HR)				12				
E	TIME IN CLOUD (MIN & SEC)				7:30				
F	EXPOSURE (INTEGRON IN R)				1.5				
G	COCKPIT BACKGROUND (R/HR)				1.5				
H	SAMPLE READING (WTIC IN R/HR)				42				
I	SQUEEGEE ON (YES OR NO)				No				
	INDICATED AIR SPEED (MPH)				360				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					1.1				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					2.2				
SAMPLE READING ON LANDING (WTIC IN R/HR)					29				
TIME LANDING READINGS TAKEN					1714 <i>Page 2/12/50</i>				
LEAD VEST:			PILOT:			OBSERVER:			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO									
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
16647		4550		16646		3250			

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PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: SYCAMORE			
PILOT:			TAKEOFF TIME: 1627			SAMPLER CODE: Hot Hot 1			
OBSERVER:			LANDING TIME: 1655			AIRCRAFT NUMBER: 500			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16714	3050							
OBSERVER	16901	2150							
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				39.5/82.0				
C	PENETRATION TIME (LOCAL)				1626				
D'	PEAK CLOUD INTENSITY (R/HR)				30				
D''	AVERAGE CLOUD INTENSITY (R/HR)				8				
E	TIME IN CLOUD (MIN & SEC)				13:00				
F	EXPOSURE (INTEGRON IN R)				1.6				
G	COCKPIT BACKGROUND (R/HR)				1.8				
H	SAMPLE READING (WTIC IN R/HR)				25				
I	SQUEEGEE ON (YES OR NO)				Yes total of 19 minutes				
	INDICATED AIR SPEED (MPH)				270				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.85				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					2.25				
SAMPLE READING ON LANDING (WTIC IN R/HR)					17				
TIME LANDING READINGS TAKEN					1657				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
16325		4410		16324		2850			

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AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME: 1514			SAMPLER CODE: Hot Shot 12			
OBSERVER:			LANDING TIME: 1645			AIRCRAFT NUMBER: 980			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16749	2760							
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				43.5	43.5			
C	PENETRATION TIME (LOCAL)				1603	1600			
D'	PEAK CLOUD INTENSITY (R/HR)				60	60			
D''	AVERAGE CLOUD INTENSITY (R/HR)				30	30			
E	TIME IN CLOUD (MIN & SEC)				2:00	1:30			
F	EXPOSURE (INTEGRON IN R)				1	1.7			
G	COCKPIT BACKGROUND (R/HR)				1	1.7			
H	SAMPLE READING (WTIC IN R/HR)				33	43			
I	SQUEEGEE ON (YES OR NO)				Yes	Yes			
	INDICATED AIR SPEED (MPH)				170	170			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.7				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					2.5				
SAMPLE READING ON LANDING (WTIC IN R/HR)					25				
TIME LANDING READINGS TAKEN					1648				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM GADGES									
CANOPY				INTEGRON					
NUMBER	READING			NUMBER	READING				
16327	3350			16326	3050				

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See next page 12

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PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: SYCAMORE				
PILOT:			TAKEOFF TIME: 1530			SAMPLER CODE: Hot Shot 3				
OBSERVER:			LANDING TIME: 1656			AIRCRAFT NUMBER: 196				
CREW EXPOSURE DATA										
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	16709	1820								
OBSERVER	16970	1950								
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			30/37	27	28 1/2				
C	PENETRATION TIME (LOCAL)			1625	1628	1630				
D'	PEAK CLOUD INTENSITY (R/HR)			12	18	20				
D''	AVERAGE CLOUD INTENSITY (R/HR)			5	10	8				
E	TIME IN CLOUD (MIN & SEC)			2:00	3:30	4:00				
F	EXPOSURE (INTEGRON IN R)			.3	.9	1.4				
G	COCKPIT BACKGROUND (R/HR)			1	1	1.6				
H	SAMPLE READING (WTIC IN R/HR)			10	33	36				
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes				
	INDICATED AIR SPEED (MPH)			320	315	320				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.6						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.1						
SAMPLE READING ON LANDING (WTIC IN R/HR)				24						
TIME LANDING READINGS TAKEN				1658						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:				
EXPERIMENTAL FILM DAGES										
CANOPY			INTEGRON							
NUMBER	READING		NUMBER	READING						
16329	3470		16328	2560						

See no results

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AIRCRAFT DATA FORM						SHOT TITLE:					
PILOT:			TAKEOFF TIME: 1551			SAMPLER CODE: Hot Shot 1					
OBSERVER:			LANDING TIME: 1710			AIRCRAFT NUMBER: 502					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	16906	3020									
OBSERVER	16908	2100									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				22	20.22 22					
C	PENETRATION TIME (LOCAL)				1627	1625					
D'	PEAK CLOUD INTENSITY (R/HR)				28	26					
D''	AVERAGE CLOUD INTENSITY (R/HR)				12	13					
E	TIME IN CLOUD (MIN & SEC)				3:00	3:00					
F	EXPOSURE (INTEGRON IN R)				1.5	1.32					
G	COCKPIT BACKGROUND (R/HR)				.5	1.8					
H	SAMPLE READING (WTIC IN R/HR)				17	15					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED (MPH)				120	120					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.93							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.22							
SAMPLE READING ON LANDING (WTIC IN R/HR)				30							
TIME LANDING READINGS TAKEN				1712							
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER	READING		NUMBER	READING							
16761	4180		16760	3070							

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PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: SYCAMOR?			
PILOT:			TAKEOFF TIME: 1617			SAMPLER CODE: Hot Shot 6			
OBSERVER:			LANDING TIME: 1725			AIRCRAFT NUMBER: 501			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	16916	2590							
OBSERVER	16919	2510							
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				15				
C	PENETRATION TIME (LOCAL)				1655				
D'	PEAK CLOUD INTENSITY (R/HR)				10				
D''	AVERAGE CLOUD INTENSITY (R/HR)				8				
E	TIME IN CLOUD (MIN & SEC)				12:00				
F	EXPOSURE (INTEGRON IN R)				1.5				
G	COCKPIT BACKGROUND (R/HR)				3.5				
H	SAMPLE READING (WTIC IN R/HR)				1.8				
I	SQUEEGEE ON (YES OR NO)				No				
	INDICATED AIR SPEED (MPH)				350				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					3.0				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					2.5 3.0				
SAMPLE READING ON LANDING (WTIC IN R/HR)					30				
TIME LANDING READINGS TAKEN					1727				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER	READING		NUMBER	READING					
16763	3370		16762	5130					

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566-80-300-5/12

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FILTER RECOVERY DATA COLLECTION SHEET

SHOT STEAMERS

SHOT TIME: 1500 Hours

CHECK TIME: 1630-175 min, 1700-120 Min, 1730-150 Min, 1800-180 Min, 1930-210 Min, 1900-240 Min

	A/C - SAMPLE	READING TIME	READING R'HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	* 980-R1&2	1656	3.36	116	4.0x10 ¹⁵ x 0.75		UCRL
2	* 980-L1&2	1707	2.71	127	3.6x10 ¹⁵ x 0.75		UCRL
3	* 500-R1&2	1712	7.89	132	1.2x10 ¹⁶ x 0.75		UCRL
4	* 500-L1&2	1717	6.90	137	1.0x10 ¹⁶ x 0.75		UCRL
5	496-R-1/2	1722	6.40	142	9.8x10 ¹⁵		UCRL
6	496-R-1/4	1724	2.88	144	4.3x10 ¹⁵		UCRL
7	496-R-1/8	1727	1.90	147	3.0x10 ¹⁵		UCRL
8	* 496-L1&2	1732	9.90	152	1.6x10 ¹⁶ x 0.75		UCRL
9	502-R1/2	1736	5.52	156	9.5x10 ¹⁵ x 0.75		UCRL
10	* 502-R1/2	1738	4.70	158	8.1x10 ¹⁵ x 0.75		UCRL
11	* 502-L1&2	1748	9.92	168	2.9 x 10 ¹⁶ x 0.75		UCRL
12							

NOTES: * Large type UCRL type pigs

all others are small type UCRL type pigs

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2000-10-20-001-12

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4157

FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:
SYCAMORE

SHOT TIME: :
1500 Hours

TAKEN BY

CHECK TIME:
1800-180 Min, 1830-210 Min

	A/C - SAMPLE	READING TIME	READING R/HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	* 506-R1/2	1749	5.30	169	1.1x10 ¹⁶ x0.75		UCRL
2	* 506-R-1/2	1751	5.80	171	1.2x10 ¹⁶ x0.75		AFOAT-1
3	* 506-L	1756	10.25	176	2.6x10 ¹⁶ x0.75 2.0x10 ¹⁶ x0.75		UCRL
4	* 501-R	1801	9.64	181	1.5x10 ¹⁶ x0.75		UCRL
5	* 501-L	1805	9.71	185	2.1x10 ¹⁶ x0.75		UCRL
6							
7							
8							
9							
10							
11							
12							

NOTES:
 * Large UCRL type pigs.
 all other small type.

PRIVACY ACT MATERIAL REMOVED

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5000-80-30005/2

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PRIVACY ACT MATERIAL REMOVED

PILOT:		TAKEOFF TIME:		SAMPLE CODE:				
		0615		HARDTIDE 2				
OBSERVER:		LANDING TIME:		AIRCRAFT NUMBER:				
		0754		501				
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	48043	2170						
OBSERVER	48043	1570						
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	20-23						
C	PENETRATION TIME (LOCAL)	0821						
D'	PEAK CLOUD INTENSITY (R/HR)	20						
D''	AVERAGE CLOUD INTENSITY (R/HR)	10						
E	TIME IN CLOUD (MIN & SEC)	6300						
F	EXPOSURE (INTEGRON IN R)	.83						
G	COCKPIT BACKGROUND (R/HR)	2.6						
H	SAMPLE READING (WTIC IN R/HR)	40						
I	SQUEEGEE ON (YES OR NO)	Yes						
	INDICATED AIR SPEED (MPH)	340						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)		1						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		1.68						
SAMPLE READING ON LANDING (WTIC IN R/HR)		29						
TIME LANDING READINGS TAKEN		0854						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		PILOT:		OBSERVER:				
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING	NUMBER	READING	NUMBER	READING			
46807	2110	46806	1590					

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AIRCRAFT DATA FORM

REMOVED

PILOT:	TAKEOFF TIME: 0705	SAMPLER CODE: HAEDTLE 1
OBSERVER:	LANDING TIME: 0335	AIRCRAFT NUMBER: 500

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48052	970						
OBSERVER	48053	780						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	42/44						
C	PENETRATION TIME (LOCAL)	0747						
D'	PEAK CLOUD INTENSITY (R/HR)	20						
D''	AVERAGE CLOUD INTENSITY (R/HR)	7						
E	TIME IN CLOUD (MIN & SEC)	3:00						
F	EXPOSURE (INTEGRON IN R)	.9						
G	COCKPIT BACKGROUND (R/HR)	.5						
H	SAMPLE READING (WTIC IN R/HR)	28.31						
I	SQUEEGEE ON (YES OR NO)	Yes						
	INDICATED AIR SPEED (MPH)	170						

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) **0.1**

TOTAL EXPOSURE ON LANDING (INTEGRON IN R) **1.4**

SAMPLE READING ON LANDING (WTIC IN R/HR) **9**

TIME LANDING READINGS TAKEN **0830**

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
46811	1750	46810	1390

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AIRCRAFT DATA FORM						SHOT TITLE: RETRACED			
PILOT:			TAKEOFF TIME: 0615			SAMPLER CODE: HARDTUBE 11			
OBSERVER:			LANDING TIME: 0755			AIRCRAFT NUMBER: 977			
CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	48011	1910							
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				9.5				
C	PENETRATION TIME (LOCAL)				0702				
D'	PEAK CLOUD INTENSITY (R/HR)				30				
D''	AVERAGE CLOUD INTENSITY (R/HR)				12				
E	TIME IN CLOUD (MIN & SEC)				3:00				
F	EXPOSURE (INTEGRON IN R)				2.25				
G	COCKPIT BACKGROUND (R/HR)				.5				
H	SAMPLE READING (WTIC IN R/HR)				10				
I	SQUEEGEE ON (YES OR NO)				Yes				
	INDICATED AIR SPEED (MPH)				150				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.1				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					2.2				
SAMPLE READING ON LANDING (WTIC IN R/HR)					2				
TIME LANDING READINGS TAKEN					0755				
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
46825		1570		46825		1550			

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AIRCRAFT DATA FORM						STATION: REDWOOD					
PILOT:			TAKEOFF TIME: 0735			SAMPLER CODE: HARDTIME 15					
OBSERVER:			LANDING TIME: 0852			AIRCRAFT NUMBER: 503					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	49048	750									
OBSERVER	48050	630									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				48.5 to 49						
C	PENETRATION TIME (LOCAL)				0812						
D'	PEAK CLOUD INTENSITY (R/HR)				18						
D''	AVERAGE CLOUD INTENSITY (R/HR)				9						
E	TIME IN CLOUD (MIN & SEC)				6:00						
F	EXPOSURE (INTEGRON IN R)				.82						
G	COCKPIT BACKGROUND (R/HR)				2.2						
H	SAMPLE READING (WTIC IN R/HR)				2						
I	SQUEEGEE ON (YES OR NO)				Yes						
	INDICATED AIR SPEED (MPH)				175						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.12							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.12							
				7A							
SAMPLE READING ON LANDING (WTIC IN R/HR)				9							
TIME LANDING READINGS TAKEN				0850							
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER		READING		NUMBER		READING					
46928		1110		46829		990					

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AIRCRAFT DATA FORM

~~REDWOOD~~

PILOT:	TAKEOFF TIME: 0655	SAMPLER CODE: Hot Times
OBSERVER:	LANDING TIME: 0830	AIRCRAFT NUMBER: 498

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	48046	530						
OBSERVER	48047	570						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	37	27	26				
C	PENETRATION TIME (LOCAL)	0735	0752	0804				
D'	PEAK CLOUD INTENSITY (R/HR)	4	6	5				
D''	AVERAGE CLOUD INTENSITY (R/HR)	.5	4	3.5				
E	TIME IN CLOUD (MIN & SEC)	8:00	5:00	5:00				
F	EXPOSURE (INTEGRON IN R)	.2	.4	.8				
G	COCKPIT BACKGROUND (R/HR)	.1	.5	.6				
H	SAMPLE READING (WTIC IN R/HR)	1.8	10	15				
I	SQUEEGEE ON (YES OR NO)	Yes	Yes	Yes				
	INDICATED AIR SPEED (MPH)	240 to 305						

COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) **.3**

TOTAL EXPOSURE ON LANDING (INTEGRON IN R) **1.25**
3A

SAMPLE READING ON LANDING (WTIC IN R/HR) **11**

TIME LANDING READINGS TAKEN **0835**

LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PILOT:	OBSERVER:
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EXPERIMENTAL FILM BADGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
46820 46821	1300	46820	890

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FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:

APLE

SHOT TIME: :

0530

TAKEN BY

CHECK TIME:

0730-120 Min, 0800-150 Min, 0830-180 Min, 0900-210 Min

	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	979-R	0827	3.67	2.95	3.75x10 ¹⁵		All Livermore except five (5) and six (6) below
2	979-L	0834	3.74	3.07	3.1x10 ¹⁵		
3	500-F1	0837	1.24	3.15	1.28x10 ¹⁵		
4	500-R-2	0843	1.14	3.22	1.6x10 ¹⁵		
5	500-R-1	0847	2.44	3.28	3.3x10 ¹⁵ x0.75=2.48x10 ¹⁵		
6	503-R-1	0850	1.65	3.30	2.4x10 ¹⁵ x0.75=1.8x10 ¹⁵		
7	503-R-1C	0852	0.95	3.35	1.5x10 ¹⁵		AFCAT-1
8	503-R-1B	0854	0.81	3.40	1.2x10 ¹⁵		AFCAT-1
9	503-L	0859	3.53	3.48	5.7x10 ¹⁵ x0.75=4.28x10 ¹⁵		
10	504-P	0902	8.93	3.53	1.4x10 ¹⁶ x0.75=1.05x10 ¹⁶		
11	504-L	0909	7.93	3.65	1.4x10 ¹⁶ x0.75=1.05x10 ¹⁶		
12							

NOTE: 5 Livermore pigs (5 small I.D.), All others are of large I.D.

For pigs with large I.D. a factor of 0.75 was used. This factor is in question for Livermore pigs at present, and is being confirmed by T.I.

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FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:

M.F.E.

SHOT TIME: 0530

TAKEN BY

CHECK TIME:

~~XXXXXXXX~~ 0900-210 Min, 0930-240 Min

	A/C - SAMPLE	READING TIME	READING R/HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	D	C	D	E	F	G
1	569-R	0914	2.54	3.73	4.5X10 ¹⁵ X10	75-3.38X10 ¹⁵	(All Livermore)
2	569-L	0918	2.15	3.80	3.8X10 ¹⁵ X10	75-2.85X10 ¹⁵	
3	977-R	0929	1.70	3.98	3.2X10 ¹⁵ X10	75-2.4X10 ¹⁵	
4	977-L	0933	1.48	4.10	3.0X10 ¹⁵ X10	75-2.25X10 ¹⁵	
5							
6							
7							
8							
9							
10							
11							
12							

NOTES:

All large I. E. type Livermore pigs.

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PILOT DATA FORM					SHOT TITLE: MAPLE					
PILOT:			TAKEOFF TIME: 0625		SAMPLER CODE: Hot shot 11					
OBSERVER: N/A			LANDING TIME: 0920		AIRCRAFT NUMBER: 821 977					
CREW EXPOSURE DATA										
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	43709	719								
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			-11	-11	-11				
C	PENETRATION TIME (LOCAL)			0824	0831	0836				
D'	PEAK CLOUD INTENSITY (R/HR)			4	3	2.5				
D''	AVERAGE CLOUD INTENSITY (R/HR)			1.2	1					
E	TIME IN CLOUD (MIN & SEC)			2:30	2:23	2:00				
F	EXPOSURE (INTEGRON IN R)			1.5	.5	.6				
G	COCKPIT BACKGROUND (R/HR)			.1	.1	.6				
H	SAMPLE READING (WTIC IN R/HR)			9	23	21				
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes				
	INDICATED AIR SPEED (MPH)			180	180	180				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.2						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.1						
SAMPLE READING ON LANDING (WTIC IN R/HR)				0						
TIME LANDING READINGS TAKEN										
LEAD VEST:			PILOT:			OBSERVER:				
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO										
EXPERIMENTAL FILM BADGES										
CANOPY					INTEGRON					
NUMBER		READING			NUMBER			READING		
42432		1460			42431			1120		

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500 40 200 05/10

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AIRCRAFT DATA FORM						SHOT TITLE: NAFEE		
PILOT:			TAKEOFF TIME: 0700			SAMPLER CODE: Hot Shot 4		
OBSERVER:			LANDING TIME: 0818			AIRCRAFT NUMBER: 503		
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	43721	1140						
OBSERVER	43727	1120						
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	44.7						
C	PENETRATION TIME (LOCAL)	0745						
D'	PEAK CLOUD INTENSITY (R/HR)	30						
D''	AVERAGE CLOUD INTENSITY (R/HR)	12						
E	TIME IN CLOUD (MIN & SEC)	4:10						
F	EXPOSURE (INTEGRON IN R)	.9						
G	COCKPIT BACKGROUND (R/HR)	1.3						
H	SAMPLE READING (WTIC IN R/HR)	9						
I	SQUEEGEE ON (YES OR NO)	Yes						
	INDICATED AIR SPEED (MPH)	200						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)		.7						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		#7A 2.52						
SAMPLE READING ON LANDING (WTIC IN R/HR)		8						
TIME LANDING READINGS TAKEN		0820						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER	READING		NUMBER	READING				
42426	2810		42425	1700				

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AIRCRAFT DATA FORM						SPOT TIME					
PILOT:			TAKEOFF TIME: 0710			SAMPLER CODE: Hot Shot 5					
OBSERVER:			LANDING TIME: 0833			AIRCRAFT NUMBER: 504					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	43723	890									
OBSERVER	43724	930									
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				27						
C	PENETRATION TIME (LOCAL)				0755						
D'	PEAK CLOUD INTENSITY (R/HR)				12						
D''	AVERAGE CLOUD INTENSITY (R/HR)				8						
E	TIME IN CLOUD (MIN & SEC)				7:00						
F	EXPOSURE (INTEGRON IN R)				.9						
G	COCKPIT BACKGROUND (R/HR)				2.5						
H	SAMPLE READING (WTIC IN R/HR)				33						
I	SQUEEGEE ON (YES OR NO)				Yes						
	INDICATED AIR SPEED (MPH)				310						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.6						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.5 <i>#8A</i>						
SAMPLE READING ON LANDING (WTIC IN R/HR)					24						
TIME LANDING READINGS TAKEN					0835						
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
42127			2340			42128			1500		

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AIRCRAFT DATA FORM				SHOT TITLE:				
PILOT:		TAKEOFF TIME:		SAMPLE CODE:				
		0501		MIDLE				
OBSERVER:		LANDING TIME:		AIRCRAFT NUMBER:				
		0903		Hot Shot 6 569				
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	43700	1270						
OBSERVER	43701	1170						
DATA CARDS								
CODE	INFORMATION	PENETRATION						
A	PASS NUMBER	1	2	3	4	5	6	7
B	ALTITUDE (1000')	16						
C	PENETRATION TIME (LOCAL)	0827						
D'	PEAK CLOUD INTENSITY (R/HR)	11						
D''	AVERAGE CLOUD INTENSITY (R/HR)	5						
E	TIME IN CLOUD (MIN & SEC)	7:00						
F	EXPOSURE (INTEGRON IN R)	.8						
G	COCKPIT BACKGROUND (R/HR)	1.0						
H	SAMPLE READING (WTIC IN R/HR)	11						
I	SQUEEGEE ON (YES OR NO)	Yes						
	INDICATED AIR SPEED (MPH)	170						
COCKPIT INTENSITY ON LANDING (RASCEL IN R/HR)		.3						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)		1.15 #10A						
SAMPLE READING ON LANDING (WTIC IN R/HR)		11						
TIME LANDING READINGS TAKEN		0905						
LEAD VEST:		PILOT:		OBSERVER:				
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO								
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER	READING		NUMBER	READING				
12131	1810		12133	1430				

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AIRCRAFT DATA FORM						SHOT TITLE: <u> </u>					
PILOT:			TAKEOFF TIME: 0635			MATEL SAMPLER CODE: Hot Shot 12					
OBSERVER: N/A			LANDING TIME: 0745			AIRCRAFT NUMBER: 978					
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	13704	1460									
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				9/32						
C	PENETRATION TIME (LOCAL)				0727						
D'	PEAK CLOUD INTENSITY (R/HR)				20						
D''	AVERAGE CLOUD INTENSITY (R/HR)				11						
E	TIME IN CLOUD (MIN & SEC)				8:00						
F	EXPOSURE (INTEGRON IN R)				1.4						
G	COCKPIT BACKGROUND (R/HR)				1.						
H	SAMPLE READING (WTIC IN R/HR)				10						
I	SQUEEGEE ON (YES OR NO)				Yes						
	INDICATED AIR SPEED (MPH)				185						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				0.5							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				2.1 # 12A							
SAMPLE READING ON LANDING (WTIC IN R/HR)				20							
TIME LANDING READINGS TAKEN											
LEAD VEST: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER		READING		NUMBER		READING					
12122		2250		12121		2010					

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AIRCRAFT DATA FORM

SHOT TITLE:
MAPLE

PILOT:

TAKEOFF TIME:
0650

SAMPLER CODE:
Hot Shot 3

OBSERVER:

LANDING TIME:
0818

AIRCRAFT NUMBER:
500

CREW EXPOSURE DATA

	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	13706	1270						
OBSERVER	13705	1260						

DATA CARDS

CODE	INFORMATION	PENETRATION						
		1	2	3	4	5	6	7
A	PASS NUMBER							
B	ALTITUDE (1000')	16	17	16				
C	PENETRATION TIME (LOCAL)	0730	0737	0745				
D'	PEAK CLOUD INTENSITY (R/HR)	5	28	30				
D''	AVERAGE CLOUD INTENSITY (R/HR)	2.5	2.4	2.5				
E	TIME IN CLOUD (MIN & SEC)	5:00	2:00	5:30				
F	EXPOSURE (INTEGRON IN R)	.4	.6	1.35				
G	COCKPIT BACKGROUND (R/HR)	.1	.4	.4				
H	SAMPLE READING (WTIC IN R/HR)	4	8	30				
I	SQUEEGEE ON (YES OR NO)	Yes	Yes	Yes				
	INDICATED AIR SPEED (MPH)	190	190	190				

COCKPIT INTENSITY ON LANDING (RASCEL IN R/HR) **.4**

TOTAL EXPOSURE ON LANDING (INTEGRON IN R) **1.60**
#4A

SAMPLE READING ON LANDING (WTIC IN R/HR) **6**

TIME LANDING READINGS TAKEN **0820**

LEAD VEST: YES NO

PILOT:

OBSERVER:

EXPERIMENTAL FILM DAGES

CANOPY		INTEGRON	
NUMBER	READING	NUMBER	READING
12121	2390	12123	1830

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