

404337

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Classification changed to _____
by authority of the U. S. Atomic Energy Commission.

For HR 190-16 _____
(Person authorizing change in classification) (Date)

By _____
(Signature of person making the change, and date)

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AIRCRAFT DATA FORM (AFR 190-10)						SHOT TITLE: Wilson		
PILOT:			TAKEOFF TIME: 0615			SAMPLER CODE: Tiger Red II		
OBSERVER: N/A			LANDING TIME: 0721			AIRCRAFT NUMBER: 053		
FILM BADGE CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	712521	565	712522	550				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			27	26.5	26.5		
C	PENETRATION TIME (LOCAL)			0657	0702	0707		
D'	PEAK CLOUD INTENSITY (R/HR)			10	21	17		
D''	AVERAGE CLOUD INTENSITY (R/HR)			7	10	7		
E	TIME IN CLOUD (MIN & SEC)			1:	1:50	1:		
F	EXPOSURE (INTEGRON IN R)			.15	.35	.55		
G	COCKPIT BACKGROUND (R/HR)			.5	.6	.7		
H	SAMPLE READING (WTIC IN R/HR)			28	32	34		
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes		
	INDICATED AIR SPEED (MPH)			260	260	270		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .25								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .65								
SAMPLE READING ON LANDING (WTIC IN R/HR) 25								
TIME LANDING READINGS TAKEN 0725								
BEST COPY AVAILABLE								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
717918		815		717919		705		

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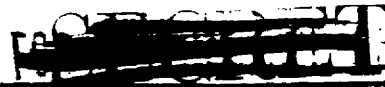
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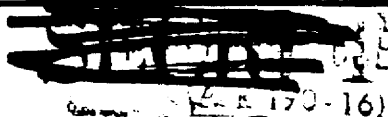
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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Wilson				
PILOT:			TAKEOFF TIME: 0656			SAMPLER CODE: Tiger II				
OBSERVER:			LANDING TIME: 0608			AIRCRAFT NUMBER: 051				
FLIM BADGE CREW EXPOSURE DATA										
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	717967	315	717966	405						
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			25	26.5	26.5				
C	PENETRATION TIME (LOCAL)			0633	0636	0640				
D'	PEAK CLOUD INTENSITY (R/HR)									
D''	AVERAGE CLOUD INTENSITY (R/HR)									
E	TIME IN CLOUD (MIN & SEC)			:13	:17	:18				
F	EXPOSURE (INTEGRON IN R)			.2	.25	.55				
G	COCKPIT BACKGROUND (R/HR)									
H	SAMPLE READING (WTIC IN R/HR)			5	13	17				
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes				
	INDICATED AIR SPEED (MPH)			340	330	320				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) XXXXX										
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .8										
SAMPLE READING ON LANDING (WTIC IN R/HR) 22										
TIME LANDING READINGS TAKEN 0659										
LEAD VEST: ☒ YES ☐ NO				PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES										
CANOPY					INTEGRON					
NUMBER		READING		NUMBER		READING				
717912		1200		717913		815				



AIRCRAFT DATA FORM (AFR 190-16)					SHOT TITLE:			
PILOT:			TAKEOFF TIME:		SAMPLER CODE:			
			0550		21, 22, 23			
OBSERVER:			LANDING TIME:		AIRCRAFT NUMBER:			
			0730		049			
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	711195	845	711196	860				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			37	37.3	38	36	36
C	PENETRATION TIME (LOCAL)			0613	0617	0625	0630	0635
D'	PEAK CLOUD INTENSITY (R/HR)			29	35	39	14	17
D''	AVERAGE CLOUD INTENSITY (R/HR)			14	16	15	6.2	10
E	TIME IN CLOUD (MIN & SEC)			1:10	1:55	1:02	1:35	1:30
F	EXPOSURE (INTEGRON IN R)			.1	.32	.64	.82	1.05
G	COCKPIT BACKGROUND (R/HR)			0.3	0.5	0.5	0.5	0.5
H	SAMPLE READING (WTIC IN R/HR)			11.1	14	16	34	36
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes	Yes	Yes
	INDICATED AIR SPEED (MPH)			21.5	24.5	24.5	24.5	24.5
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 0.12								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.44								
SAMPLE READING ON LANDING (WTIC IN R/HR) 16								
TIME LANDING READINGS TAKEN 0735								
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM GADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
711010		1640		711309		1420		



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AIRCRAFT DATA FORM (AFF 190-16)					SHOT TITLE: Wilson					
PILOT:			TAKEOFF TIME: 0615		SAMPLER CODE: Tiger Red I					
OBSERVER:			LANDING TIME: 0723		AIRCRAFT NUMBER: 034					
FILM BADGE			CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	711187	580	711186	580						
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			27	27	27				
C	PENETRATION TIME (LOCAL)			0657	0702	0707				
D'	PEAK CLOUD INTENSITY (R/HR)			20	20	20				
D''	AVERAGE CLOUD INTENSITY (R/HR)			4	3	3				
E	TIME IN CLOUD (MIN & SEC)			1:	150	1:				
F	EXPOSURE (INTEGRON IN R)			11.3	.4	.6				
G	COCKPIT BACKGROUND (R/HR)			.5	.9	1				
H	SAMPLE READING (WTIC IN R/HR)			40	10	12				
I	SQUEEGEE ON (YES OR NO)			Yes	Yes	Yes				
	INDICATED AIR SPEED 280 Knots			260	260	270				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.3						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.7						
SAMPLE READING ON LANDING (WTIC IN R/HR)				10						
TIME LANDING READINGS TAKEN				0724						
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:				
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER		READING		NUMBER		READING				
717916		920		717917		785				

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AIRCRAFT DATA FORM (AFM 150-16)						SHOT TITLE:					
PILOT:				TAKEOFF TIME:		SAMPLER CODE:					
				E 0545		Hot Shot I					
OBSERVER:				LANDING TIME:		AIRCRAFT NUMBER:					
				0618		501					
FILM BADGE				CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	717958	1740	717959	1920							
OBSERVER	717983	1540	717982	1480							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				38.5	38.5					
C	PENETRATION TIME (LOCAL)				0604	0606.5					
D'	PEAK CLOUD INTENSITY (R/HR)				30	28					
D''	AVERAGE CLOUD INTENSITY (R/HR)				20	15					
E	TIME IN CLOUD (MIN & SEC)				130	130					
F	EXPOSURE (INTEGRON IN R)				.4	.8					
G	COCKPIT BACKGROUND (R/HR)				1	1.9					
H	SAMPLE READING (WTIC IN R/HR)				50	70					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED (MPH)				230/105	245/132					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1.5											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.4											
SAMPLE READING ON LANDING (WTIC IN R/HR) 60											
TIME LANDING READINGS TAKEN 0621 1/2											
LEAD VEST: ☒ YES ☐ NO				PILOT: Yes				OBSERVER: Yes			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
717095			4470			717096			2310		

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AIRCRAFT DATA FORM						SHOT TITLE: Lasser			
PILOT:			TAKEOFF TIME: 0510			SAMPLER CODE: Tiger I			
OBSERVER:			LANDING TIME: 0537			AIRCRAFT NUMBER: 032			
FILM DADGE			CREW EXPOSURE DATA				DOSIMETER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	711190	55	711191	55					
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER 9 Passes				1	2	3	4	5
B	ALTITUDE (1000')				6.5				
C	PENETRATION TIME (LOCAL)				0510-0530				
D'	PEAK CLOUD INTENSITY (R/HR)				2				
D''	AVERAGE CLOUD INTENSITY (R/HR)				1.1	XXXXXXXXXXXXXXXXXXXX			
E	TIME IN CLOUD (MIN & SEC)				20	XXXXXXXXXXXXXXXXXXXX			
F	EXPOSURE (INTEGRON IN R)				0.1	XXXXXXXXXXXXXXXXXXXX			
G	COCKPIT BACKGROUND (R/HR)				0.3				
H	SAMPLE READING (WTIC IN R/HR)				6.3				
I	SQUEEGEE ON (YES OR NO)				No				
	INDICATED AIR SPEED XXXX Knots				400				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 0.3									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 0.12									
SAMPLE READING ON LANDING (WTIC IN R/HR) 5.0									
TIME LANDING READINGS TAKEN 0537									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM DADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
711000		360		711001		175			

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44-100-161

SHOT TITLE:
Wilson

TAKEN BY

0600=75 min, 0630=105 min, 0700=135 min, 0730=165 min, 0800=195 min

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(A.F.R. 190-16)

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(AFR 190-16)

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FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE: Wilson	
SHOT TIME: 0445				TAKEN BY			
CHECK TIME: 0600-75 min. 0630-105 min. 0700-135 min. 0730-165 min. 0800-195 min. 0830-225 min. 0900-255 min.							
	A/C - SAMPLE	READING TIME	READING R./HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	501-R-2	0747	1.7	182	2.3×10^{15}		
2	502-L-F	0754	3.1	189	5.4×10^{15}		
3	502-L-R	0759	.160	194	2.5×10^{14}		
4	502-R-1	0803	2.6	197	3.8×10^{15}		
5	502-R-1	0805	.8	199	1.5×10^{15}		
6	502-R-1	0807	.75	202	1.2×10^{15}		
7	495-L-F	0815	3.4	210	5.5×10^{15}		
8	495-L-R	0820	.170	215	2.8×10^{14}		
9	495-R-1	0824	2.6	219	4.5×10^{15}		
10	495-R-1	0825	1.1	220	1.9×10^{15}		
11	495-R-1	0827	1.0	222	2.5×10^{15}		
12	051-R	0842	1.2	237	2.3×10^{15}		
NOTES:							
	051-L	0846	1.0	241	1.9 1.9×10^{15}		
	049-R	0851	.65	246	1.4×10^{15}		
	049-L	0853	1.55	248	3.0×10^{15}		
	054-R-1	0900	.450	255	1.0×10^{15}		
	054-R-1	0900	.65	255	1.3×10^{15}		
	054-L-F	0904	.80	259	1.5×10^{15}		
	054-L-R	0906	.060	261	1.3×10^{14}		
	053-R	0908	.96	263	$2. \times 10^{15}$		
	053-L	0914	.80	269	2.5×10^{15}		
	053-L-R	0915	.040	270	$9. \times 10^{13}$		

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AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:				TAKOFF TIME: 0615 0615		SAMPLER CODE: Net Shot III		
OBSERVER:				LANDING TIME: 0710		AIRCRAFT NUMBER: 495		
CREW EXPOSURE DATA						FILM BADGE		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	717968		717968		717968	750	717969	705
OBSERVER	717971		717971		717971	705	717970	655
DATA CARDS								
CODE	INFORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				37.8	38	38.7	
C	PENETRATION TIME (LOCAL)				0642	0646	0651	
D'	PEAK CLOUD INTENSITY (R/HR)				6	11	24	
D''	AVERAGE CLOUD INTENSITY (R/HR)				4	8	16	
E	TIME IN CLOUD (MIN & SEC)				21	1:10	1:15	
F	EXPOSURE (INTEGRON IN R)				.1	.32	.6	
G	COCKPIT BACKGROUND (R/HR)				.4	1.0	1.7	
H	SAMPLE READING (WTIC IN R/HR)				8	19	26	
I	SQUEEGEE ON (YES OR NO)				Yes	Yes	Yes	
	INDICATED AIR SPEED (MPH)				180	190	290	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					1.0			
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.0			
SAMPLE READING ON LANDING (WTIC IN R/HR)					23			
TIME LANDING READINGS TAKEN					0713			
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
717914		1680		717915		940		

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Wilson					
PILOT:				TAKEOFF TIME: 0800		SAMPLER CODE: 93-53-11					
OBSERVER:				LANDING TIME: 0800		AIRCRAFT NUMBER: 502					
FILM BRW				CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	717962	995	717963	Damaged							
OBSERVER	717965	995	717964	580							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				28	23.5					
C	PENETRATION TIME (LOCAL)				0616	0620					
D'	PEAK CLOUD INTENSITY (R/HR)				45	40					
D''	AVERAGE CLOUD INTENSITY (R/HR)				40	30					
E	TIME IN CLOUD (MIN & SEC)				1:25	1:20					
F	EXPOSURE (INTEGRON IN R)				.35	.55					
G	COCKPIT BACKGROUND (R/HR)				.45	.6					
H	SAMPLE READING (WTIC IN R/HR)				19	26					
I	SQUEEGEE ON (YES OR NO)				0613.5	0609					
	INDICATED AIR SPEED (MPH)				300	270					
COCKPIT INTENSITY ON LANDING (R/HR) .4											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .85											
SAMPLE READING ON LANDING (WTIC IN R/HR) 0.6											
TIME LANDING READINGS TAKEN 0645											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM DAGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
717910			2900			717911			1260		

AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			SAMPLER CODE:		
			0522			Tiger II		
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:		
N/A			0600			037		
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	711192	0	711193	0				
OBSERVER								
DATA CARDS								
CODE	INFORMATION		PENETRATION					
A	PASS, NUMBER		1	2	3	4	5	6
B	ALTITUDE (1000')		6.5	6.5	6.5	6.5	6.5	
C	PENETRATION TIME (LOCAL)		05:35	05:37	05:39	05:41	05:46	
D'	PEAK CLOUD INTENSITY (R/HR)		0.5	0.5	3	3	3	
D''	AVERAGE CLOUD INTENSITY (R/HR)		.1	1	1	1	1	
E	TIME IN CLOUD (MIN) EEK		:10	:8	:6	:6	:4	
F	EXPOSURE (INTEGRON IN R)		.1	.3	.3	.3	.3	
G	COCKPIT BACKGROUND (R/HR)		.1	.1	.1	.1	.1	
H	SAMPLE READING (WTIC IN R/HR)		1	1	1	1.1	1.1	
I	SQUEEGEE ON (YES OR NO)		No	No	No	No	No	
	INDICATED AIR SPEED EEK Knots		400	350	370	400	400	
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) 1								
TIME LANDING READINGS TAKEN 0556								
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
711002	0		711003	0				

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AIRCRAFT DATA FORM						SHOT TITLE: Lassen					
PILOT:			TAKEOFF TIME: 0533			SAMPLER CODE: Tiger 4					
OBSERVER: N/A			LANDING TIME: 0655			AIRCRAFT NUMBER: 055					
FILM BADGES			CREW EXPOSURE DATA				DOSIMETER				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	711197	0	711196	0							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				6.5						
C	PENETRATION TIME (LOCAL)				0630	0633	0636	0639	0641		
D'	PEAK CLOUD INTENSITY (R/HR)				0						
D''	AVERAGE CLOUD INTENSITY (R/HR)				0						
E	TIME IN CLOUD (MIN & SEC)				1:20"	1:30"	1:20"	1:25"	40"		
F	EXPOSURE (INTEGRON IN R)				0						
G	COCKPIT BACKGROUND (R/HR)				0						
H	SAMPLE READING (WTIC IN R/HR)				.04	.06	.08	0.12	0.17		
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	No		
	INDICATED AIR SPEED (MPH)										
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 0											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 0											
SAMPLE READING ON LANDING (WTIC IN R/HR) 0.16											
TIME LANDING READINGS TAKEN 0655											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
711006			0			711007			0		

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AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME:			SAMPLER CODE:			
			0530			SPARE I			
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:			
			0637			043			
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	711198	0	711199	0					
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER 17 Passes				1	2	3	4	5
B	ALTITUDE (1000') 10000				6.3				
C	PENETRATION TIME (LOCAL)				0549-0633				
D'	PEAK CLOUD INTENSITY (R/HRI)				2				
D''	AVERAGE CLOUD INTENSITY (R/HRI)				.1				
E	TIME IN CLOUD (MIN & SEC)				30				
F	EXPOSURE (INTEGRON IN R)				.05				
G	COCKPIT BACKGROUND (R/HRI)				0				
H	SAMPLE READING (WTIC IN R/HRI)				.69				
I	SQUEEGEE ON (YES OR NO)				No				
	INDICATED AIR SPEED (KNOTS)				350				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HRI) 0									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .06									
SAMPLE READING ON LANDING (WTIC IN R/HRI) .6									
TIME LANDING READINGS TAKEN 0634									
LEAD VEST:			PILOT:			OBSERVER:			
☒ YES ☐ NO									
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
712505		0		712506		0			

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PRIVACY ACT MATERIAL REMOVED

FILTER RECOVERY DATA COLLECTION SHEET					SHOT TITLE: <u>La 200</u>		
SHOT TIME: <u>0615</u>				TAKEN BY: _____			
CHECK TIME: <u>0545=60, 0615=90, 0645=120, 0715=150, 0745=180</u>							
	A/C - SAMPLE	READING TIME	READING R. KH	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	032-L	0605	.85R	80	6.8×10^{14}	UCRL	
2	032-R-1	0616	.87R	92	2.5×10^{14}	AFSCAT	
3	032-R-2	0620	.75R	95	2.4×10^{14}	AFSCAT	
4	037-R	0629	.11R	104	1.2×10^{14}	UCRL	
5	037-L	0634	.20R	109	2.15×10^{14}	UCRL	
6	043-L	0647	.11R	122	2.45×10^{14}	UCRL	
7	043-R	0651	.20R	126	2.4×10^{14}	UCRL	
8	055-R	0704	.0275	139	too low	UCRL	
9	055-L	0700	.023R	144	to calculate	UCRL	
10							
11							
12							

NOTES: UCRL fissions: $f = 3.72 \times 10^{14}$ ± 1.2
 (± 1.5)

- 4×10^{14}
- 1.2×10^{14}
- 1.2×10^{14}
- 7×10^{13}
- 7×10^{13}
- 91×10^{14}
- 9×10^{14}
- 31×10^{14}
- 22×10^{14}

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AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			SAMPLE CODE:		
			0530			Tiger I		
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:		
			0624			032		
FILM BADGE		CREW EXPOSURE DATA				POSTMETER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	717871	535	717872	500				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			16	16.5	15	15	
C	PENETRATION TIME (LOCAL)			0555	0557	0600	0609	
D'	PEAK CLOUD INTENSITY (R/HR)			3	12	15	14	
D''	AVERAGE CLOUD INTENSITY (R/HR)			2	10	10	8	
E	TIME IN CLOUD (MIN)			13	20	6	3	
F	EXPOSURE (INTEGRON IN R)			.05	.1	.4	.5	
G	COCKPIT BACKGROUND (R/HR)				.1	.6	.7	
H	SAMPLE READING (WTIC IN R/HR)			1	4	32	40	
I	SQUEEGEE ON (YES OR NO)			No	No	No	No	
	INDICATED AIR SPEED (MPH)			360	400	350	350	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .6								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .62								
SAMPLE READING ON LANDING (WTIC IN R/HR) 34								
TIME LANDING READINGS TAKEN 0623								
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
712139	1040		712140	800				

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AIRCRAFT DATA FORM						SHOT TITLE: Franklin	
PILOT:			TAKOFF TIME: 0615			SAMPLER CODE: T190-16	
OBSERVER:			LANDING TIME: 0636			AIRCRAFT NUMBER: 037	
FILM BADGE		CREW EXPOSURE DATA				DOSIMETER	
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER
PILOT	712876	235	712873	235			
OBSERVER							
DATA CARDS							
CODE	INFORMATION			PENETRATION			
A	PASS NUMBER			1	2	3	4
B	ALTITUDE (1000')			15			
C	PENETRATION TIME (LOCAL)			0615			
D'	PEAK CLOUD INTENSITY (R/HR)			7			
D''	AVERAGE CLOUD INTENSITY (R/HR)			.6			
E	TIME IN CLOUD (MIN)			11			
F	EXPOSURE (INTEGRON IN R)			.3			
G	COCKPIT BACKGROUND (R/HR)			.7			
H	SAMPLE READING (WTIC IN R/HR)			.24			
I	SQUEEGEE ON (YES OR NO)			No			
	INDICATED AIR SPEED XXXX Knts			400			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .6							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .3							
SAMPLE READING ON LANDING (WTIC IN R/HR) .21							
TIME LANDING READINGS TAKEN 0637							
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:	
EXPERIMENTAL FILM BADGES							
CANOPY				INTEGRON			
NUMBER		READING		NUMBER		READING	
XXXXX 712141		500		712142		360	

AFSWC FORM 0-379A
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AIRCRAFT DATA FORM					ASROT TYPE: Franklin				
PILOT:		TAKEOFF TIME: 0601			SAMPLER CODE: Tiger IV				
OBSERVER:		LANDING TIME: 0725			AIRCRAFT NUMBER: 038				
FILM BADGE		CREW EXPOSURE DATA			DOSIMETER				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	712529	140	712528	120					
OBSERVER									
DATA CARDS									
CODE	INFORMATION			PENETRATION					
A	PASS NUMBER			1	2	3	4	5	6
B	ALTITUDE (1000')			15.1					
C	PENETRATION TIME (LOCAL)			0650					
D'	PEAK CLOUD INTENSITY (R/HR)			2					
D''	AVERAGE CLOUD INTENSITY (R/HR)			1					
E	TIME IN CLOUD (MIN)			25					
F	EXPOSURE (INTEGRON IN R)			.3					
G	COCKPIT BACKGROUND (R/HR)			.15					
H	SAMPLE READING (WTIC IN R/HR)			7					
I	SQUEEGEE ON (YES OR NO)			No					
	INDICATED AIR SPEED 390 Knots			390					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1.5									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1									
SAMPLE READING ON LANDING (WTIC IN R/HR) .6									
TIME LANDING READINGS TAKEN 0730									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY			INTEGRON						
NUMBER	READING		NUMBER	READING					
712145	105		712146	290					

AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			SAMPLER CODE:		
			0601			Tiger V		
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:		
			0725			051		
FILM BADGE			CREW EXPOSURE DATA			DO SIMULTANEOUS		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	717870	235	717869	250				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			15				
C	PENETRATION TIME (LOCAL)			0650				
D'	PEAK CLOUD INTENSITY (R/HR)			3.0				
D''	AVERAGE CLOUD INTENSITY (R/HR)			2.0				
E	TIME IN CLOUD (MIN. SEC)			25				
F	EXPOSURE (INTEGRON IN R)			.34				
G	COCKPIT BACKGROUND (R/HR)			.15				
H	SAMPLE READING (WTIC IN R/HR)			9.6				
I	SQUEEGEE ON (YES OR NO)			No				
	INDICATED AIR SPEED (MPH)			354				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.11				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.38				
SAMPLE READING ON LANDING (WTIC IN R/HR)				.80				
TIME LANDING READINGS TAKEN				0720				
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
717147	430		717148	360				

AIRCRAFT DATA FORM					SHOT TITLE: Franklin						
PILOT:			TAKEOFF TIME: 0546		SAMPLER CODE: Tiger III						
OBSERVER:			LANDING TIME: 0650		AIRCRAFT NUMBER: 053						
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	712530	175	712531	235							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				14.3						
C	PENETRATION TIME (LOCAL)				0631						
D'	PEAK CLOUD INTENSITY (R/HR)				3.7						
D''	AVERAGE CLOUD INTENSITY (R/HR)				1.1						
E	TIME IN CLOUD (MIN & SEC)				16:10						
F	EXPOSURE (INTEGRON IN R)				.3						
G	COCKPIT BACKGROUND (R/HR)				.25						
H	SAMPLE READING (WTIC IN R/HR)				175						
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED (MPH)				370						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .15											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .35											
SAMPLE READING ON LANDING (WTIC IN R/HR) 175											
TIME LANDING READINGS TAKEN 0656											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER		READING		NUMBER		READING					
7121A3		450		7121A4		335					

(REF 190-16)

FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:

Franklin

SHOT TIME: ::

TAKEN BY

61.55

CHECK TIME:

0615-20, 0615-110, 0715-110, 0715-170, 0815-200

NOTES:

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(AFR 190-16)

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Boltzman				
PILOT:			TAKEOFF TIME: 0645			SAMPLER CODE: Tiger white II				
OBSERVER: N/A			LANDING TIME: 0745			AIRCRAFT NUMBER: 1081				
FILM BADGE		CREW EXPOSURE DATA				DOSIMETER				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	712076	610	712077	720	0-206382	+1R				
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			29/30	30					
C	PENETRATION TIME (LOCAL)			0716:5	0723:5					
D'	PEAK CLOUD INTENSITY (R/HR)			15	10					
D''	AVERAGE CLOUD INTENSITY (R/HR)			8	8					
E	TIME IN CLOUD (MIN & SEC)			8	6					
F	EXPOSURE (INTEGRON IN R)			.4	.8					
G	COCKPIT BACKGROUND (R/HR)			.3	.3					
H	SAMPLE READING (WTIC IN R/HR)			18	.26					
I	SQUEEGEE ON (YES OR NO)			No	No					
	INDICATED AIR SPEED (KNOTS)			300	270					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.35						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.0						
SAMPLE READING ON LANDING (WTIC IN R/HR)				20						
TIME LANDING READINGS TAKEN				0750						
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:				
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER		READING		NUMBER		READING				
712080		1000		712113		1000				

AIRCRAFT DATA FORM					SHOT TITLE:						
PILOT:			WAKEOFF TIME:		SAMPLER CODE:						
			0645		White I						
OBSERVER:			LANDING TIME:		AIRCRAFT NUMBER:						
N/A			0745		055						
FILM BALGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	712009	625	712090	640							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				29	30					
C	PENETRATION TIME (LOCAL)				0716:5	0723:5					
D'	PEAK CLOUD INTENSITY (R/HR)				13	12					
D''	AVERAGE CLOUD INTENSITY (R/HR)				8	8					
E	TIME IN CLOUD (MIN)				5	6					
F	EXPOSURE (INTEGRON IN R)				.36	.71					
G	COCKPIT BACKGROUND (R/HR)				.3	.5					
H	SAMPLE READING (WTIC IN R/HR)				17	28					
I	SQUEEGEE ON (YES OR NO)				No	No					
	INDICATED AIR SPEED (MPH)				280	290/260					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 0.4											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .9											
SAMPLE READING ON LANDING (WTIC IN R/HR) 22											
TIME LANDING READINGS TAKEN 0750											
LEAD VEST:				PILOT:				OBSERVER:			
☒ YES ☐ NO											
EXPERIMENTAL FILM GADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
712129			1160			712130			955		

AIRCRAFT DATA FORM						PILOT TITLE:			
PILOT:			TAKEOFF TIME:			SAMPLER CODE:			
			0630			Tiger Red I			
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:			
N/A			0720			053			
FILM RANGE			CREW EXPOSURE DATA			DOSE/21FR			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	712086	655	712087	720				7.2	
OBSERVER								.9	
DATA CARDS									
CODE	INFORMATION			PENETRATION					
A	PASS NUMBER			1	2	3	4	5	6
B	ALTITUDE (1000')			22	25	22	25	25	26
C	PENETRATION TIME (LOCAL)			0710	0715	0720	0724	0727	0731
D'	PEAK CLOUD INTENSITY (R/HR)			4	10	6	10	8	8
D''	AVERAGE CLOUD INTENSITY (R/HR)			.2	6	3	6	5	5
E	TIME IN CLOUD (MIN & SEC)			2:20	2:30	1:50	1:30	2:00	2:50
F	EXPOSURE (INTEGRON IN R)			.2	.3	.3	.75	.65	.8
G	COCKPIT BACKGROUND (R/HR)			.2	.2	.4	.4	.4	.6
H	SAMPLE READING (WTIC IN R/HR)			4	6	7.5	12	20	22
I	SQUEEGEE ON (YES OR NO)			No	No	No	No	No	No
	INDICATED AIR SPEED (MPH)			280	270	285	260	250	270
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 2.5									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .9									
SAMPLE READING ON LANDING (WTIC IN R/HR) 20									
TIME LANDING READINGS TAKEN 0750									
LEAD VEST:			PILOT:			OBSERVER:			
☒ YES ☐ NO									
EXPERIMENTAL FILM DODGES									
CANOPY			INTEGRON						
NUMBER	READING		NUMBER	READING					
712123	1160		712124	1040					

AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Bolt 7215					
PILOT:			TAKEOFF TIME: 0630			SAMPLER CODE: Tle-2 Red II					
OBSERVER: N/A			LANDING TIME: 0720			AIRCRAFT NUMBER: 1045					
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	712073	800	712075	425	None						
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				22	26	23	24	25		
C	PENETRATION TIME (LOCAL)				09	13	15	21	26		
D'	PEAK CLOUD INTENSITY (R/HR)				6	12	6	8	9		
D''	AVERAGE CLOUD INTENSITY (R/HR)				2	4	3	3	4		
E	TIME IN CLOUD (MIN & SEC)				2:20	1:30	1:05	2:05	3:00		
F	EXPOSURE (INTEGRON IN R)				.18	.25	.22	.5	.91		
G	COCKPIT BACKGROUND (R/HR)				.05	.1	.2	.23	.45		
H	SAMPLE READING (WTIC IN R/HR)				.33	.35	.72	140	240		
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	No		
	INDICATED AIR SPEED (MPH)				330	270	285	260	280		
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) 200											
TIME LANDING READINGS TAKEN 0748											
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY				INTEGRON							
NUMBER		READING		NUMBER		READING					
712125		1020		712126		675					

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AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			Boltzman		
			0615			SAMPLER CODE:		
OBSERVER:			LANDING TIME:			Not Shot II		
			0710			AIRCRAFT NUMBER:		
						1501		
FILM BADGES			CREW EXPOSURE DATA			DOSIMETER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	712082	845	712081	1000	None			
OBSERVER	712083	1040	712084	840	0-20619	off scale	0-208795	1 R
DATA CARDS								
CODE	INFORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				27	28	29	30
C	PENETRATION TIME (LOCAL)				45/55	47/00	49/15	50/45
D'	PEAK CLOUD INTENSITY (R/HR)				14	30	25	28
D''	AVERAGE CLOUD INTENSITY (R/HR)				8	15	15	20
E	TIME IN CLOUD (MIN SEC)				65	60	30	65
F	EXPOSURE (INTEGRON IN R)				.15	.4	.4	.85
G	COCKPIT BACKGROUND (R/HR)				5	1	1	1.0
H	SAMPLE READING (WTIC IN R/HR)				15	20	28	29
I	SQUEEGEE ON (YES OR NO)				No	No	No	No
	INDICATED AIR SPEED (MPH)				280	280	240	285
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .85								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.1								
SAMPLE READING ON LANDING (WTIC IN R/HR) 26								
TIME LANDING READINGS TAKEN 0711								
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
712114		1740		712115		1140		

AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME:			SAMPLE CODE:			
			0605			Net Shot 1			
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:			
			0700			21502			
FILM BADGE			CREW EXPOSURE DATA			DO NOT WRITE			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	712067	1500	712068	1300	K01706	OFF SCALE			
OBSERVER	712062	1140	712061	1240					
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				32	31	31	31	31
C	PENETRATION TIME (LOCAL)				0630	0631	0634	0637	0639
D'	PEAK CLOUD INTENSITY (R/HR)				5	11	18	16	19
D''	AVERAGE CLOUD INTENSITY (R/HR)				.4	.8	15	13	16
E	TIME IN CLOUD (SEC)				90	20	120	70	80
F	EXPOSURE (INTEGRON IN R)				.2	.3	.7	.9	1.1
G	COCKPIT BACKGROUND (R/HR)				3	4	6	8	12
H	SAMPLE READING (WTIC IN R/HR)				20	19	40	30	50
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	No
	INDICATED AIR SPEED (MPH)				250	250	250	250	250
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.40				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					1.98				
SAMPLE READING ON LANDING (WTIC IN R/HR)					32				
TIME LANDING READINGS TAKEN					0708				
LEAD VEST:			PILOT:			OBSERVER:			
☒ YES ☐ NO			Kimball			Trapp			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
712120		2685		712121		1760			

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FILTER RECOVERY DATA COLLECTION SHEET (AFR 150-16)						SHOT TITLE: Boltsman	
SHOT TIME: 0455				TAKEN BY			
CHECK TIME: 0515-20 min, 0545-50 min, 0615-20 min 0645-110 min, 0715-140 min, 0745-170 min, 0830-215 min							
	A/C - SAMPLE	READING TIME	READING R/HH	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	502-R-1	0715	5.0	140	7.8 X 10 ¹⁵	5.85	Hot 1
2	502-R-2	0717	4.8	142	7.4 X 10 ¹⁵	5.55	
3	502-L-1	0722	4.7	147	7.6 X 10 ¹⁵	5.77	
4	502-L-2	0724	4.1	149	6.8 X 10 ¹⁵	5.10	
5	501-L-1	0729	3.0	154	5.1 X 10 ¹⁵	4.05	Hot 2
6	501-L-2	0731	2.7	156	4.8 X 10 ¹⁵	3.60	
7	501-R-1	0739	2.8	164	5.2 X 10 ¹⁵	3.90	Hot 2
8	501-R-2	0741	2.4	166	4.6 X 10 ¹⁵	3.45	
9	055-L	0801	1.6	186	3.3 X 10 ¹⁵		WI
10	055-R	0807	2.2	192	5.2 X 10 ¹⁵		
11	051-L	0812	1.8	197	4.1 X 10 ¹⁵		WZ
12	051-R	0814	1.6	199	3.7 X 10 ¹⁵		
NOTES: Flyway #I C-47, Ser #49010, to LASL							
Flyway #II, C-47, Ser #0-315281, to LASL							
Line							
Line							
Line							

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FILTER RECOVERY DATA COLLECTION SHEET (16-190-16)

SHOT TITLE: Boltzman

SHOT TIME: 0455

TAKEN BY:

CHECK TIME: 0515-20 min, 0545-50 min, 0645-110 min, 0715-110 min, 0745-170 min, 0830-215 min

	A/C - SAMPLE	READING TIME	READING R. HH	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	053-L	0819	1.95	204	4.8 X 10 ¹⁵		Red 1
2	053-R	0822	2.0	207	4.9 X 10 ¹⁵		
3	046-L	0827	1.8	212	4.6 X 10 ¹⁵		Red 2
4	046-R	0830	1.8	215	4.6 X 10 ¹⁵		
5							
6							
7							
8							
9							
10							
11							
12							

NOTES:

Flyway #III, C-47, Ser. #0-315274 (1 box to AFCAAT-1, McClellan)

Line

Line

Line

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FILTER RECOVERY DATA COLLECTION: REF 190-161						SHOT TITLE: Boltzman	
SHOT TIME: 0455				TAKEN BY:			
CHECK TIME: 0515-20 min, 0545-50 min, 0615-110 min, 0715-140 min, 0745-170 min, 0830-215 min							
	A/C - SAMPLE	READING TIME	READING R. HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
NOTES:							

AIRCRAFT DATA FORM AF 150-107						SHOT TITLE: Owens	
PILOT:				TAKEOFF TIME: 0730		SAMPLER CODE: Hot Shot I	
OBSERVER:				LANDING TIME: 0850		AIRCRAFT NUMBER: 500	
FILM BADGE				CREW EXPOSURE DATA			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER
PILOT	732787	550	732788	535			
OBSERVER	732776	450	732777	450			
DATA CARDS							
CODE	INFORMATION			PENETRATION			
A	PASS NUMBER			1	2	3	4
B	ALTITUDE (1000')			31.3			
C	PENETRATION TIME (LOCAL)			0825			
D'	PEAK CLOUD INTENSITY (R/HR)			12			
D''	AVERAGE CLOUD INTENSITY (R/HR)			4			
E	TIME IN CLOUD (MIN & SEC)			41			
F	EXPOSURE (INTEGRON IN R)			0.5			
G	COCKPIT BACKGROUND (R/HR)						
H	SAMPLE READING (WTIC IN R/HR)			16			
I	SQUEEGEE ON (YES OR NO)						
	INDICATED AIR SPEED (MPH)						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 0.7							
SAMPLE READING ON LANDING (WTIC IN R/HR) 12							
TIME LANDING READINGS TAKEN 0853							
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:	
EXPERIMENTAL FILM BADGES							
CANOPY				INTEGRON			
NUMBER		READING		NUMBER		READING	
733328		920		733329		640	

AIRCRAFT DATA FORM (AFF 190-1A)						SHOT TITLE: Owens		
PILOT:			TAKEOFF TIME: 0730			SAMPLER CODE: Tiger II		
OBSERVER:			LANDING TIME: 0815			AIRCRAFT NUMBER: 046		
FILM BADGE			CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732742	1060	732741	1020				
OBSERVER								
DATA CARDS								
CODE	INFORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				29	30		
C	PENETRATION (LOCAL)				0757	0803		
D'	PEAK CLOUD INTENSITY (R/HR)				45	35		
D''	AVERAGE CLOUD INTENSITY (R/HR)				30	30		
E	TIME IN CLOUD (MIN & SEC)				120	130		
F	EXPOSURE (INTEGRON IN R)				.2	1.1		
G	COCKPIT BACKGROUND (R/HR)				.5	XX1.5		
H	SAMPLE READING (WTIC IN R/HR)				12	50		
I	SQUEEGEE ON (YES OR NO)				No	No		
	INDICATED AIR SPEED 280 Knots				310			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1.3								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.5								
SAMPLE READING ON LANDING (WTIC IN R/HR) 40								
TIME LANDING READINGS TAKEN 0820								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733301		2340		733302		1800		

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Owens					
PILOT:				TAKEOFF TIME: 0745		SAMPLER CODE: Tiger IV					
OBSERVER:				LANDING TIME: 0840		AIRCRAFT NUMBER: 055					
FILM BADGE						CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	732766	450	732767	430							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				23/24						
C	PENETRATION TIME (LOCAL)				0819						
D'	PEAK CLOUD INTENSITY (R/HR)				12						
D''	AVERAGE CLOUD INTENSITY (R/HR)				3						
E	TIME IN CLOUD (MIN & SEC)				12:						
F	EXPOSURE (INTEGRON IN R)				.5						
G	COCKPIT BACKGROUND (R/HR)				.2						
H	SAMPLE READING (WTIC IN R/HR)				36						
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED XXXX Knots				300						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .6											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .65											
SAMPLE READING ON LANDING (WTIC IN R/HR) 32											
TIME LANDING READINGS TAKEN 0845											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733326			1140			733327			860		

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Owens	
PILOT:			TAKEOFF TIME: 0725			SAMPLER CODE: Tiger I	
OBSERVER:			LANDING TIME: 0755			AIRCRAFT NUMBER: 043	
FILM BADGE				CREW EXPOSURE DATA			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER
PILOT	724395	1000	724396	1000			
OBSERVER							
DATA CARDS							
CODE	INFORMATION			PENETRATION			
A	PASS NUMBER			1	2	3	4
B	ALTITUDE (1000')			1			
C	PENETRATION TIME (LOCAL)			0745			
D'	PEAK CLOUD INTENSITY (R/HR)			100			
D''	AVERAGE CLOUD INTENSITY (R/HR)			50			
E	TIME IN CLOUD (MIN & SEC)			140			
F	EXPOSURE (INTEGRON IN R)			1.1			
G	COCKPIT BACKGROUND (R/HR)			2.5			
H	SAMPLE READING (WTIC IN R/HR)			60			
I	SQUEEGEE ON (YES OR NO)			No			
	INDICATED AIR SPEED 290 Knots			290			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1.5							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.5							
SAMPLE READING ON LANDING (WTIC IN R/HR) 50							
TIME LANDING READINGS TAKEN 0800							
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:	
EXPERIMENTAL FILM BADGES							
CANOPY				INTEGRON			
NUMBER		READING		NUMBER		READING	
733199		2340		733300		1760	

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AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME: 0725			SAMPLER CODE: Tiger III			
OBSERVER:			LANDING TIME: 0825			AIRCRAFT NUMBER: 054			
FILM BADGE						CREW EXPOSURE DATA			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	732772	640	732773	675					
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				27	26.5	26		
C	PENETRATION TIME (LOCAL)				0808	0809	0811		
D'	PEAK CLOUD INTENSITY (R/HR)				30	45	45		
D''	AVERAGE CLOUD INTENSITY (R/HR)				15	20	20		
E	TIME IN CLOUD (MIN & SEC)				1:40	1:10	1:50		
F	EXPOSURE (INTEGRON IN R)				.2	.55	.8		
G	COCKPIT BACKGROUND (R/HR)				.3	.6	.1		
H	SAMPLE READING (WTIC IN R/HR)				8	16	25		
I	SQUEEGEE ON (YES OR NO)				No	No	No		
	INDICATED AIR SPEED NEUT				380	390	380		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .8									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.12									
SAMPLE READING ON LANDING (WTIC IN R/HR) 21									
TIME LANDING READINGS TAKEN 0827									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY			INTEGRON						
NUMBER	READING		NUMBER	READING					
733334	1460		733335	1100					

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AIRCRAFT DATA FORM (AFR 190-16)					SHOT TITLE: Owens			
PILOT:			TAKEOFF TIME: 0755		SAMPLER CODE: Tiger V			
OBSERVER:			LANDING TIME: 0851		AIRCRAFT NUMBER: 051			
FILM BADGE				CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732770	515	732771	550				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			32	32/34			
C	PENETRATION TIME (LOCAL)			0830	0833			
D'	PEAK CLOUD INTENSITY (R/HR)			25	25			
D''	AVERAGE CLOUD INTENSITY (R/HR)			10	10			
E	TIME IN CLOUD (MIN & SEC)			1:	4:			
F	EXPOSURE (INTEGRON IN R)			.2	.5			
G	COCKPIT BACKGROUND (R/HR)			.5	1			
H	SAMPLE READING (WTIC IN R/HR)			5	18			
I	SQUEEGEE ON (YES OR NO)			No	No			
	INDICATED AIR SPEED 270 Knots			270	270			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .7								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .85								
SAMPLE READING ON LANDING (WTIC IN R/HR) 18-30								
TIME LANDING READINGS TAKEN 0855								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733330		1200		733331		890		

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AIRCRAFT DATA FORM						SHOT TITLE: Kepler					
PILOT:			TAKEOFF TIME: 0610			SAMPLER CODE: Tiger Red I					
OBSERVER:			LANDING TIME: 0656			AIRCRAFT NUMBER: 043					
FILM BADGE		CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	732722	610	732723	580							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				21.7	21.5					
C	PENETRATION TIME (LOCAL)				0639:43	0645:46					
D'	PEAK CLOUD INTENSITY (R/HR)				13	11					
D''	AVERAGE CLOUD INTENSITY (R/HR)				9	9					
E	TIME IN CLOUD (MIN & SEC)				4:1	1:15					
F	EXPOSURE (INTEGRON IN R)				.5	.75					
G	COCKPIT BACKGROUND (R/HR)				.6	.7					
H	SAMPLE READING (WTIC IN R/HR)				31	39					
I	SQUEEGEE ON (YES OR NO)				No	No					
	INDICATED AIR SPEED XXXX Knots				280	280					
COCKPIT INTENSITY ON LANDING (R/SCAL IN R/HR) .4											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .9											
SAMPLE READING ON LANDING (WTIC IN R/HR) 34											
TIME LANDING READINGS TAKEN 0700											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733153			1340			733154			1060		

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AIRCRAFT DATA FORM						SHOT TITLE: Kepler					
PILOT:			TAKEOFF TIME: 0655			SAMPLER CODE: Tiger White I					
OBSERVER:			LANDING TIME: 0725			AIRCRAFT NUMBER: 046					
PILOT BADGE			CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	732728	550	732729	535							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				17.5	17.6	17.4	17.5	17.5		
C	PENETRATION TIME (LOCAL)				0656	0659	0703	0707	0712		
D'	PEAK CLOUD INTENSITY (R/HR)				4	4.5	6	4	4		
D''	AVERAGE CLOUD INTENSITY (R/HR)				2.5	2	2.5	2	1.5		
E	TIME IN CLOUD (MIN & SEC)				2:10	2:10	2:10	2:10	2:15		
F	EXPOSURE (INTEGRON IN R)				.1	.25	.4	.5	.65		
G	COCKPIT BACKGROUND (R/HR)				.3	.5	.8	.8	.85		
H	SAMPLE READING (WTIC IN R/HR)				13	22	28	34	38		
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	No		
	INDICATED AIR SPEED XXXX Knots				360	350	370	380	390		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .7											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .9											
SAMPLE READING ON LANDING (WTIC IN R/HR) 32											
TIME LANDING READINGS TAKEN 0728											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733157			1300			733158			1000		

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AIRCRAFT DATA FORM (AFM 170-107)						SHOT TITLE: Kepler			
PILOT:			TAKEOFF TIME: 0613			SAMPLER CODE: Tiger Red II			
OBSERVER:			LANDING TIME: 0656			AIRCRAFT NUMBER: 049			
FILM BADGE					CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	732721 732721	735	732725	770					
OBSERVER									
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	
B	ALTITUDE (1000')				22	22	22	22	
C	PENETRATION TIME (LOCAL)				0637	0639	0643	0646	
D'	PEAK CLOUD INTENSITY (R/HR)				13	14	19	20	
D''	AVERAGE CLOUD INTENSITY (R/HR)				1.5	3	9	10	
E	TIME IN CLOUD (MIN & SEC)				1:45	2:10	1:30	1:45	
F	EXPOSURE (INTEGRON IN R)				.11	.43	.7	1.0	
G	COCKPIT BACKGROUND (R/HR)				.5	.9	.7	.7	
H	SAMPLE READING (WTIC IN R/HR)				22	26	34	43	
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	
	INDICATED AIR SPEED 140 Knots				280	280	280	280	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .58									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.2									
SAMPLE READING ON LANDING (WTIC IN R/HR) 30									
TIME LANDING READINGS TAKEN 0700									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY				INTEGRON					
NUMBER		READING		NUMBER		READING			
733155		1520		733156		1420			

AIRCRAFT DATA FORM					SHOT TITLE: Kepler			
PILOT:			TAKED OFF TIME: 0635		SAMPLER CODE: Hot Shot II			
OBSERVER:			LANDING TIME: 0753		AIRCRAFT NUMBER: 300			
FILM BADGE			CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732744	800	732743	640				
OBSERVER	732733	690	732732	550				
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			20	20	18	21.5	
C	PENETRATION TIME (LOCAL)			0715	0720	0726	0736	
D'	PEAK CLOUD INTENSITY (R/HR)			9X9.5	9.2	1.7	9	
D''	AVERAGE CLOUD INTENSITY (R/HR)			8	8.5	1.5	6	
E	TIME IN CLOUD (MIN & SEC)			1:40	2:40	1:20	2:40	
F	EXPOSURE (INTEGRON IN R)			.1	.45	.5	.71	
G	COCKPIT BACKGROUND (R/HR)			.14	.23	.275	.4	
H	SAMPLE READING (WTIC IN R/HR)			4	17	17	21	
I	SQUEEGEE ON (YES OR NO)			No	No	No	No	
	INDICATED AIR SPEED XXXX Knots			307	316	300	320	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .3								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .71								
SAMPLE READING ON LANDING (WTIC IN R/HR) 18								
TIME LANDING READINGS TAKEN 0756								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733195		1300		733196		845		

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AIRCRAFT DATA FORM						SHOT TITLE: Kepler		
PILOT:				TAKEOFF TIME: 0550		SAMPLE CODE: Hotshot 1		
OBSERVER:				LANDING TIME: 0637		AIRCRAFT NUMBER: 502		
FILM BADGE				CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732719	955	732718	845				
OBSERVER	732720	830	732721	940				
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			21	18	18		
C	PENETRATION TIME (LOCAL)			0623	0625	0629		
D'	PEAK CLOUD INTENSITY (R/HR)			60	20	30		
D''	AVERAGE CLOUD INTENSITY (R/HR)			50	15	20		
E	TIME IN CLOUD (MIN & SEC)			1:45	1:22	1:50		
F	EXPOSURE (INTEGRON IN R)			.3	.7	.91		
G	COCKPIT BACKGROUND (R/HR)			.1	.4	.9		
H	SAMPLE READING (WTIC IN R/HR)			18	60	72		
I	SQUEEGEE ON (YES OR NO)			No	No	No		
	INDICATED AIR SPEED (XXX Knots)			370	380	380		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				XXX .87				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				1.1				
SAMPLE READING ON LANDING (WTIC IN R/HR)				62				
TIME LANDING READINGS TAKEN				0640				
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733151		1880		733152		1340		

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AIRCRAFT DATA FORM						SHOT TITLE: Kepler					
PILOT:			TAKEOFF TIME: 0640			SAMPLER CODE: Tiger White II					
OBSERVER:			LANDING TIME: 0730			AIRCRAFT NUMBER: 053					
FILM BADGE						CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	732727	675	732726	550							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				17	17	17	17	17		
C	PENETRATION TIME (LOCAL)				0653	0657	0701	0705	0710		
D'	PEAK CLOUD INTENSITY (R/HR)				4	3.5	5	3	2.5		
D''	AVERAGE CLOUD INTENSITY (R/HR)				2	25	25	2	1.75		
E	TIME IN CLOUD (MIN & SEC)				21	2:30	21	1:30	1:20		
F	EXPOSURE (INTEGRON IN R)				.2	.25	.4	.5	.65		
G	COCKPIT BACKGROUND (R/HR)				.2	.35	.55	.55	.6		
H	SAMPLE READING (WTIC IN R/HR)				12	21	33	37	41		
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	No		
	INDICATED AIR SPEED XXX Knots				360	360	350	360	380		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) XXX .5											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .82											
SAMPLE READING ON LANDING (WTIC IN R/HR) .34											
TIME LANDING READINGS TAKEN 0729											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733159			1360			733160			985		

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AIRCRAFT DATA FORM						SHOT TITLE: Priscilla	
PILOT:			TAKEOFF TIME: 0630			SAMPLER CODE: Net Shot III	
OBSERVER:			LANDING TIME: 0955			AIRCRAFT NUMBER: 496	
FILM BADGE		CREW EXPOSURE DATA				DOSIMETER	
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER
PILOT	725097	830	725098	830			
OBSERVER	725100	785	725101	815			
DATA CARDS							
CODE	INFORMATION			PENETRATION			
A	PASS NUMBER			1	2	3	4
B	ALTITUDE (1000')			31.5	33	31	33.5
C	PENETRATION TIME (LOCAL)			0853.5	0856.5	0859	0905
D'	PEAK CLOUD INTENSITY (R/HR)			15	17	10	12
D''	AVERAGE CLOUD INTENSITY (R/HR)			8	12	5	5
E	TIME IN CLOUD (MIN & SEC)			212'30"	1'5"	2"	3"
F	EXPOSURE (INTEGRON IN R)			.2	.4	.6	.9
G	COCKPIT BACKGROUND (R/HR)			1	.4	.5	.5
H	SAMPLE READING (WTIC IN R/HR)			15	16	18	20
I	SQUEEGEE ON (YES OR NO)			No	No	No	No
	INDICATED AIR SPEED XXXX Knts			290	290	290	290
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .4							
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .95							
SAMPLE READING ON LANDING (WTIC IN R/HR) 18							
TIME LANDING READINGS TAKEN 0915							
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:	
EXPERIMENTAL FILM BADGES							
CANOPY				INTEGRON			
NUMBER		READING		NUMBER		READING	
725079		695		725080		520	

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AIRCRAFT DATA FORM					SHOT TITLE:			
PILOT:		TAKEOFF TIME:		501				
OBSERVER:		LANDING TIME:		501				
CREW EXPOSURE DATA					DOSEMASTER			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	725074	1240	725093	1300				
OBSERVER	725095	940	725096	1060				
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			40				
C	PENETRATION TIME (LOCAL)			0012				
D'	PEAK CLOUD INTENSITY (R/HR)			40				
D''	AVERAGE CLOUD INTENSITY (R/HR)			20				
E	TIME IN CLOUD (MIN & SEC)			4:15				
F	EXPOSURE (INTEGRON IN R)			1.1				
G	COCKPIT BACKGROUND (R/HR)			1.5				
H	SAMPLE READING (WTIC IN R/HR)			49				
I	SQUEEGEE ON (YES OR NO)			No				
	INDICATED AIR SPEED (KIAS) 100 knots			205				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .7								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 2.4 Break from mount								
SAMPLE READING ON LANDING (WTIC IN R/HR) 32								
TIME LANDING READINGS TAKEN 0825								
LEAD VEST: ☒ YES ☐ NO			PILOT:		OBSERVER:			
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
717924	2220		717925	1600				

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PRIVACY ACT MATERIAL REMOVED

PILOT:					TAKEOFF TIME: 0615		SHOT TITLE: Prinilla				
OBSERVER:					LANDING TIME: 0916		SAMPLER CODE: Hot Shot II				
AIRCRAFT NUMBER: 495											
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	717978	675	717979	750							
OBSERVER	725117	No Film Reading	725116	800							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				24	22	23				
C	PENETRATION TIME (LOCAL)				0835	0834	0840				
D'	PEAK CLOUD INTENSITY (R/HR)				10	10	15				
D''	AVERAGE CLOUD INTENSITY (R/HR)				7	7	6				
E	TIME IN CLOUD (MIN & SEC)				1:30	1:30	10:1				
F	EXPOSURE (INTEGRON IN R)				.1	.2	.7				
G	COCKPIT BACKGROUND (R/HR)				.5	.5	.4				
H	SAMPLE READING (WTIC IN R/HR)				10	12	34				
I	SQUEEGEE ON (YES OR NO)				No						
	INDICATED AIR SPEED 221 Knots				330	330	330				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .4											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .75											
SAMPLE READING ON LANDING (WTIC IN R/HR) 32											
TIME LANDING READINGS TAKEN 0835											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
725077			675			725078			350		

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PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM						SHOT TITLE:				
PILOT: PRIVACY ACT MATERIAL REMOVED				TAKEOFF TIME: 0750		Priacilla				
OBSERVER:				LANDING TIME: 0840		SAMPLER CODE: Tiger I				
						AIRCRAFT NUMBER: 054				
FLUX METER			CREW EXPOSURE DATA			DOSIMETER				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	727916	535	727917	580						
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			31	3730					
C	PENETRATION TIME (LOCAL)			0825	0820					
D'	PEAK CLOUD INTENSITY (R/HR)			30	28					
D''	AVERAGE CLOUD INTENSITY (R/HR)			12	20					
E	TIME IN CLOUD (MIN & SEC)			130	125					
F	EXPOSURE (INTEGRON IN R)			25	6					
G	COCKPIT BACKGROUND (R/HR)			.1	.3					
H	SAMPLE READING (WTIC IN R/HR)			6	14					
I	SQUEEGEE ON (YES OR NO)			No						
	INDICATED AIR SPEED (KNOTS)			230	260					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .2										
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .7										
SAMPLE READING ON LANDING (WTIC IN R/HR) 12										
TIME LANDING READINGS TAKEN 0845										
PRIVACY ACT MATERIAL REMOVED										
LEAD VEST: ☒ YES ☐ NO				PILOT:			OBSERVER:			
EXPERIMENTAL FILM DAGES										
CANOPY					INTEGRON					
NUMBER		READING			NUMBER		READING			
727926		970			727927		860			

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			SAMPLER CODE:		
			0750			Tiger II		
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:		
			0810			049		
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	725075	595	725076	550				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			31	31			
C	PENETRATION TIME (LOCAL)			0025	0025			
D'	PEAK CLOUD INTENSITY (R/HR)			20	12			
D''	AVERAGE CLOUD INTENSITY (R/HR)			8.9	4			
E	TIME IN CLOUD (MIN & SEC)			1:30	1:25			
F	EXPOSURE (INTEGRON IN R)			.25	.7			
G	COCKPIT BACKGROUND (R/HR)			.1	.3			
H	SAMPLE READING (WTIC IN R/HR)			20	23			
I	SQUEEGEE ON (YES OR NO)			Yes				
	INDICATED AIR SPEED (MPH)			250	240			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .2								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .75								
SAMPLE READING ON LANDING (WTIC IN R/HR) 16								
TIME LANDING READINGS TAKEN 001.7								
LEAD VEST:			PILOT:			OBSERVER:		
☒ YES ☐ NO								
EXPERIMENTAL FILM DADGES								
CANOPY				INTEGRON				
NUMBER	READING			NUMBER	READING			
725075	370			725076	415			

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(AFR 190-16)

PRIVACY ACT MATERIAL REMOVED

FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE: Priscilla	
SHOT TIME: 0630				TAKEN BY:			
CHECK TIME: 0930=180 min, 1000=210 min, 1030=240 min							
	A/C - SAMPLE	READING TIME	READING R/HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	496-R ₁ -1	0948	4.0	198	9.3x10 ¹⁵	LASL	
2	496-R₁-2	0950	2.7	200	6.4x10 ¹⁵	UCRL	
3	496-L ₁ -1	0954	3.5	204	8.4x10 ¹⁵	LASL	
4	496-L ₁ -2	0955	3.2	205	7.7x10 ¹⁵	LASL	
5	29825-R	1007	.6	217	1.6x10 ¹⁵	AFOAT	
6	29825-L	100	.5	220	1.3x10 ¹⁵	LASL	
7	35803-R	1014	.46	224	1.3x10 ¹⁵	AFOAT	
8	35803-L	1018	.43	228	1.3x10 ¹⁵	LASL	
9							
10							
11							
12							
NOTES:							

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FILTER RECOVERY DATA COLLECTION (AFR 190-16)						SHOT TITLE: Priscilla	
SHOT TIME: 0630				TAKEN BY:			
CHECK TIME: 0730=60 min. 0800=90 min. 0830=120 min. 0900=150 min. 0930=180 min. 1000=210							
	A/C - SAMPLE	READING TIME	READING R.H.H.	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	D	C	D	E	F	G
1	501-R-1-1	0853	3.7	143	5.8×10^{15}	LASL	21986
2	501-R-1-2	0856	3.4	146	5.5×10^{15}	LASL	
3	501-L-1-1	0900	3.6	150	6×10^{15}	LASL	
4	501-L-1-2	0902	2.7	152	4.6×10^{15}	LASL	
5	054-R	0911	1.4	161	2.5×10^{15}	LASL	
6	054-L	0914	1.4	164	2.6×10^{15}	LASL	
7	049-R	0919	1.5	169	2.8×10^{15}	LASL	
8	049-L	0923	1.2	173	2.4×10^{15}	LASL	LA
9	502-R-1-1	0937	4.9	187	1.1×10^{16}	LASL	3125
10	502-R-1-2	0939	3.7	189	8.1×10^{15}	LASL	
11	502-L-1-1	0943	4.3	193	9.7×10^{15}	LASL	
12	502-L-1-2	0944	3.3	194	7.3×10^{15}	UCRL	
NOTES: LASL representatives: Arthur Miller, Charles Orth							

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PRIVACY ACT MATERIAL REMOVED

AIRCRAFT DATA FORM						SHOT TITLE: Wood					
PILOT:			TAKEOFF TIME: 0610			SAMPLER CODE: Tiger I					
OBSERVER:			LANDING TIME: 0728			AIRCRAFT NUMBER: 054					
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	727907	785	727908	785							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				31	30					
C	PENETRATION TIME (LOCAL)				0645	0655					
D'	PEAK CLOUD INTENSITY (R/HR)				20	10					
D''	AVERAGE CLOUD INTENSITY (R/HR)				15	7					
E	TIME IN CLOUD (MIN & SEC)				1:30	1:20					
F	EXPOSURE (INTEGRON IN R)				.4	.8					
G	COCKPIT BACKGROUND (R/HR)				.1	.5					
H	SAMPLE READING (WTIC IN R/HR)				4	14					
I	SQUEEGEE ON (YES OR NO)				Yes	Yes					
	INDICATED AIR SPEED 240 knots				240	240					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .3											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.0											
SAMPLE READING ON LANDING (WTIC IN R/HR) 8											
TIME LANDING READINGS TAKEN 0720											
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:					
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER		READING		NUMBER		READING		NUMBER		READING	
725089		1380		725090		1240					

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PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Hood		
PILOT:			TAKEOFF TIME: 0620			SAMPLER CODE: Tiger II		
OBSERVER: PRIVACY ACT MATERIAL REMOVED			LANDING TIME: 0710			AIRCRAFT NUMBER: 046		
FILM BADGE		CREW EXPOSURE DATA				DOSIMETER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	725106	785	725187	800				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			35	36.5			
C	PENETRATION TIME (LOCAL)			0753	0755			
D'	PEAK CLOUD INTENSITY (R/HR)			23	50			
D''	AVERAGE CLOUD INTENSITY (R/HR)			7	15			
E	TIME IN CLOUD (MIN & SEC)			1:30	1:50			
F	EXPOSURE (INTEGRON IN R)			.3	.9			
G	COCKPIT BACKGROUND (R/HR)			4	4			
H	SAMPLE READING (WTIC IN R/HR)			38	85			
I	SQUEEGEE ON (YES OR NO)			Yes	Yes			
	INDICATED AIR SPEED XXXX Knots							
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .35								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.0								
SAMPLE READING ON LANDING (WTIC IN R/HR)								
TIME LANDING READINGS TAKEN PRIVACY ACT MATERIAL REMOVED								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
728278	1780		728279	1500				

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Hood		
PILOT:			TAKEOFF TIME: 0641			SAMPLER CODE: Hot Shot IV		
OBSERVER: Book			LANDING TIME: 0610			AIRCRAFT NUMBER: 302		
FILM BADGE			CREW EXPOSURE DATA			POSTMASTER		
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	727904	1220	727903	1300				
OBSERVER	732412	1080	732411	1080				
DATA CARDS								
CODE	FORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				32	24	34	
C	PENETRATION TIME (LOCAL)				0725	0728	0745	
D'	PEAK CLOUD INTENSITY (R/HR)				14	1.5	9	
D"	AVERAGE CLOUD INTENSITY (R/HR)				9	.5	6	
E	TIME IN CLOUD (MIN & SEC)				225:	4:	5:	
F	EXPOSURE (INTEGRON IN R)				.0	.1	.5	
G	COCKPIT BACKGROUND (R/HR)				1	22.2	22.4	
H	SAMPLE READING (WTIC IN R/HR)				11	10	23	
I	SQUEEGEE ON (YES OR NO)				Yes	Yes	No	
	INDICATED AIR SPEED 222 knots				250	260	270	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .2								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .7								
SAMPLE READING ON LANDING (WTIC IN R/HR) 15 R								
TIME LANDING READINGS TAKEN 0612								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
728282		1880		728283		1440		

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AIRCRAFT DATA FORM (AFR 190-10)						SHOT TITLE: Good					
PILOT:			TAKEOFF TIME: 0555			SAMPLER CODE: Hot Shot I					
OBSERVER: XXXXXXXXXX			LANDING TIME: 0730			AIRCRAFT NUMBER: 495					
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	727931	2000	727932	1900							
OBSERVER	727924	1640	727923	1640							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				48	46.7	44.5	44.6			
C	PENETRATION TIME (LOCAL)				0644	0653	0700	0708½			
D'	PEAK CLOUD INTENSITY (R/HR)				1.5	6.0	30	18			
D''	AVERAGE CLOUD INTENSITY (R/HR)				1	1	20	7			
E	TIME IN CLOUD (MIN & SEC)				3:30	2:30	1:30	1:30			
F	EXPOSURE (INTEGRON IN R)				.09	.21	.7	1.08			
G	COCKPIT BACKGROUND (R/HR)						2.0	2.0			
H	SAMPLE READING (WTIC IN R/HR)						21	24			
I	SQUEEGEE ON (YES OR NO)				Yes	Yes	No	No			
	INDICATED AIR SPEED XXXX				182	206	210	220			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .6											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.48											
SAMPLE READING ON LANDING (WTIC IN R/HR) 18											
TIME LANDING READINGS TAKEN 0730											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
724085			3420			725086			2250		

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AIRCRAFT DATA FORM AFR 190-16)						SHOT TITLE: Good					
PILOT:					TAKEOFF TIME: 0630		SAMPLER CODE: Bot Shot III				
OBSERVER:					LANDING TIME: 0732		AIRCRAFT NUMBER: 500				
CREW EXPOSURE DATA											
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	725102	955	725109	955							
OBSERVER	727933	830	727935	860							
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				3915						
C	PENETRATION TIME (LOCAL)				0721						
D	PEAK CLOUD INTENSITY (R/HR)				25						
D"	AVERAGE CLOUD INTENSITY (R/HR)				15						
E	TIME IN CLOUD (MIN & SEC)				4:						
F	EXPOSURE (INTEGRON IN R)				.65						
G	COCKPIT BACKGROUND (R/HR)				.9						
H	SAMPLE READING (WTIC IN R/HR)				16						
I	SQUEEGEE ON (YES OR NO)				Yes						
	INDICATED AIR SPEED (MPH)				245						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .65											
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .97											
SAMPLE READING ON LANDING (WTIC IN R/HR) 10											
TIME LANDING READINGS TAKEN 0735											
LEAD VEST: ☒ YES ☐ NO					PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
728280			1720			728281			1220		

TOP SECRET

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AIRCRAFT DATA FORM						SHOT TITLE:		
PILOT:				TAKEOFF TIME:		SAMPLER CODE:		
				0600		Hot Shot II		
OBSERVER:				LANDING TIME:		AIRCRAFT NUMBER:		
				0700		496		
CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	725111	1820	725110	1860				
OBSERVER	727925	1420	727926	1380				
DATA CARDS								
CODE	INFORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				42			
C	PENETRATION TIME (LOCAL)				0631			
D'	PEAK CLOUD INTENSITY (R/HR)				180			
D''	AVERAGE CLOUD INTENSITY (R/HR)				90			
E	TIME IN CLOUD (MIN & SEC)				140			
F	EXPOSURE (INTEGRON IN R)				.85			
G	COCKPIT BACKGROUND (R/HR)				2			
H	SAMPLE READING (WTIC IN R/HR)				.23			
I	SQUEEGEE ON (YES OR NO)				Yes			
	INDICATED AIR SPEED (MPH)				220			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1.5								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.5								
SAMPLE READING ON LANDING (WTIC IN R/HR) 15								
TIME LANDING READINGS TAKEN 0702								
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
725087		3045		725088		1920		

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FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE: Hood	
SHOT TIME: 0440					TAKER BY		
CHECK TIME:							
	A/C - SAMPLE	READING TIME	READING R.H.H.	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	500 L ₂	0812	0.15	212	3.8x10 ¹⁴		
2	502 R	0818	6.0	218	1.6x10 ¹⁶		
3	502 L ₂	0823	4.7	223	1.3x10 ¹⁶		
4	502 L ₂	0825	0.32	225	8.7x10 ¹⁴		
5	046 L	0836	1.3	236	3.8x10 ¹⁵		
6	046 R	0840	1.2	240	3.5x10 ¹⁵		
7							
8							
9							
10							
11							
12							

NOTES:

Instrument #7159

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE:		
PILOT:			TAKEOFF TIME:			SAMPLER CODE:		
			0925			Tiger I		
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:		
			0607			054		
FILM BADGE				CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	612511	655	712510	655				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			25	25	24.5		
C	PENETRATION TIME (LOCAL)			0551	0554	0558		
D'	PEAK CLOUD INTENSITY (R/HR)			20	70	70		
D''	AVERAGE CLOUD INTENSITY (R/HR)			15	30	40		
E	TIME IN CLOUD (MIN & SEC)			120	120	120		
F	EXPOSURE (INTEGRON IN R)			.2	.5	.95		
G	COCKPIT BACKGROUND (R/HR)			.15	.3	.6		
H	SAMPLE READING (WTIC IN R/HR)			15	12	24		
I	SQUEEGEE ON (YES OR NO)			No	No	No		
	INDICATED AIR SPEED (KNOTS)			300	300	300		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .55								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 2.05								
SAMPLE READING ON LANDING (WTIC IN R/HR) 21								
TIME LANDING READINGS TAKEN				PRIVACY ACT MATERIAL REMOVED				
LEAD VEST:				PILOT:			OBSERVER:	
☒ YES ☐ NO								
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
728286		1220		728287		1140		

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AFR 190-16)

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PRIVACY ACT

MATERIAL REMOVED		AIRCRAFT DATA FORM		SHOT TITLE: Diablo	
PILOT:		TAKOFF TIME: 0550		SAMPLER CODE: Tiger IV	
OBSERVER:		LANDING TIME: 0630		AIRCRAFT NUMBER: 049	
FLUX BADGE		CREW EXPOSURE DATA			
	NUMBER	READING	NUMBER	READING	
PILOT	727906	565	727905	515	
OBSERVER					
DATA CARDS					
CODE	INFORMATION		PENETRATION		
A	PASS NUMBER		1	2	3
B	ALTITUDE (1000')		21.2	20	
C	PENETRATION TIME (LOCAL)		0651	0620	
D'	PEAK CLOUD INTENSITY (R/HR)		34	49	
D''	AVERAGE CLOUD INTENSITY (R/HR)		9	22	
E	TIME IN CLOUD (MIN & SEC)		1:05	1:50	
F	EXPOSURE (INTEGRON IN R)		.2	.6	
G	COCKPIT BACKGROUND (R/HR)		0.1	0.3	
H	SAMPLE READING (WTIC IN R/HR)		64	65	
I	SQUEEGEE ON (YES OR NO)		No	No	
	INDICATED AIR SPEED XXXX Knots		330	380	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .028					
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .7					
SAMPLE READING ON LANDING (WTIC IN R/HR) 25					
TIME LANDING READINGS TAKEN 0635 PRIVACY ACT MATERIAL REMOVED					
LEAD VEST: ☒ YES ☐ NO		PILOT:		OBSERVER:	
EXPERIMENTAL FILM BADGES					
CANOPY			INTEGRON		
NUMBER	READING		NUMBER	READING	
728298	800		728299	750	

AIRCRAFT DATA FORM (AFR 190-10)						SHOT TITLE: Diablo		
PILOT:				TAKEOFF TIME: 0540		SAMPLER CODE: Tiger III		
OBSERVER:				LANDING TIME: 0615		AIRCRAFT NUMBER: 043		
FILM BADGE				CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	727911	590	727911	590	727912	610		
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			25	25	24.4		
C	PENETRATION TIME (LOCAL)			0554	0607	0610		
D'	PEAK CLOUD INTENSITY (R/HR)			Out	out	out		
D''	AVERAGE CLOUD INTENSITY (R/HR)			out	out	out		
E	TIME IN CLOUD (MIN & SEC)			15	10	12		
F	EXPOSURE (INTEGRON IN R)			.2	.3	.65		
G	COCKPIT BACKGROUND (R/HR)			Out	out	out		
H	SAMPLE READING (WTIC IN R/HR)			6	19	31		
I	SQUEEGEE ON (YES OR NO)			No	No	No		
	INDICATED AIR SPEED 280 Knots			340	340	340		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				Out				
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.7				
SAMPLE READING ON LANDING (WTIC IN R/HR)				30				
TIME LANDING READINGS TAKEN 0620				PRIVACY ACT MATERIAL REMOVED				
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
728290	800		728291	830				

AIRCRAFT DATA FORM					SHOT TITLE: Diablo					
PILOT:			TAKEOFF TIME: 1630		SAMPLER CODE: Special					
OBSERVER:			LANDING TIME: 1815		AIRCRAFT NUMBER: 496					
FILM BADGE					CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	732604	995	732608	No Reading						
OBSERVER										
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			26.5/27						
C	PENETRATION TIME (LOCAL)			1655/1800						
D'	PEAK CLOUD INTENSITY (R/HR)			0.250						
D''	AVERAGE CLOUD INTENSITY (R/HR)			0.075						
E	TIME IN CLOUD (MIN & SEC)			6941						
F	EXPOSURE (INTEGRON IN R)			0.11						
G	COCKPIT BACKGROUND (R/HR)			0.020						
H	SAMPLE READING (WTIC IN R/HR)			3.2						
I	SQUEEGEE ON (YES OR NO)			No						
	INDICATED AIR SPEED 210 Knots			310						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 0.15										
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 0.11										
SAMPLE READING ON LANDING (WTIC IN R/HR) 3.0										
TIME LANDING READINGS TAKEN 1820 PRIVACY ACT MATERIAL REMOVED										
LEAD VEST: ☐ YES ☒ NO				PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER		READING		NUMBER		READING				
728284		95		728285		0				

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AIRCRAFT DATA FORM						SHOT TITLE:				
PILOT:				TAKEOFF TIME:		Diablo				
OBSERVER: PRIVACY ACT MATERIAL REMOVED				0550		SAMPLER CODE:				
0636				LANDING TIME:		Hotshot I				
0636				495		AIRCRAFT NUMBER:				
FILM BADGE				CREW EXPOSURE DATA						
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	732603	800	732602	815						
OBSERVER	732608	800	732607	800						
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			23	24.5	24.5				
C	PENETRATION TIME (LOCAL)			0620	0624	0628				
D'	PEAK CLOUD INTENSITY (R/HR)			51	40	25				
D''	AVERAGE CLOUD INTENSITY (R/HR)			25	25	11				
E	TIME IN CLOUD (MIN & SEC)			1:40	1:40	1:55				
F	EXPOSURE (INTEGRON IN R)			.5	.7	1.0				
G	COCKPIT BACKGROUND (R/HR)			.5	.5	.7				
H	SAMPLE READING (WTIC IN R/HR)			19	24	29				
I	SQUEEGEE ON (YES OR NO)			No	No	No				
	INDICATED AIR SPEED (KNOTS)			400	410	430				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .5										
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.1										
SAMPLE READING ON LANDING (WTIC IN R/HR) 28										
TIME LANDING READINGS TAKEN 0639 PRIVACY ACT MATERIAL REMOVED										
LEAD VEST:				PILOT:			OBSERVER:			
☒ YES ☐ NO										
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER		READING		NUMBER		READING				
733034		1560		733035		1140				

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[REDACTED] (AFR 190-10)

AIRCRAFT DATA FORM					SHOT TITLE: Diablo			
PILOT:			TAKEOFF TIME: 0530		SAMPLER CODE: Tiger II			
OBSERVER:			LANDING TIME: 0620		AIRCRAFT NUMBER: 053			
FILM BADGE		CREW EXPOSURE DATA						
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	727936	920	727935	785				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			27	27	23.6	23.2	
C	PENETRATION TIME (LOCAL)			0559	0603	0608	0613	
D'	PEAK CLOUD INTENSITY (R/HR)			10	9	50	60	
D''	AVERAGE CLOUD INTENSITY (R/HR)			8	7	30	45	
E	TIME IN CLOUD (MIN & SEC)			1:10	1:15	1:40	1:30	
F	EXPOSURE (INTEGRON IN R)			.08	.2	.53	.95	
G	COCKPIT BACKGROUND (R/HR)			.2	.25	.4	.8	
H	SAMPLE READING (WTIC IN R/HR)			7.2	12	20	35	
I	SQUEEGEE ON (YES OR NO)			NO				
	INDICATED AIR SPEED (MPH)			250	250	250	258	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .65								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.09								
SAMPLE READING ON LANDING (WTIC IN R/HR) 31								
TIME LANDING READINGS TAKEN 0623 31 PRIVACY ACT MATERIAL REMOVED								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY			INTEGRON					
NUMBER	READING		NUMBER	READING				
728288	1480		728289	1300				

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Diablo				
PILOT:				TAKEOFF TIME: 0625		SAMPLER CODE: Hot Shot II				
OBSERVER:				LANDING TIME: 0642		AIRCRAFT NUMBER: 02				
FILM BADGE				CREW EXPOSURE DATA						
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	732604	995	732605	Lost						
OBSERVER	732609	995	732610	550						
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			22						
C	PENETRATION TIME (LOCAL)			0629						
D'	PEAK CLOUD INTENSITY (R/HR)			36						
D''	AVERAGE CLOUD INTENSITY (R/HR)			30						
E	TIME IN CLOUD (MIN & SEC)			1:30						
F	EXPOSURE (INTEGRON IN R)			.5						
G	COCKPIT BACKGROUND (R/HR)			.5						
H	SAMPLE READING (WTIC IN R/HR)			24						
I	SQUEEGEE ON (YES OR NO)			No						
	INDICATED AIR SPEED (MPH)			440						
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				.43						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.71						
SAMPLE READING ON LANDING (WTIC IN R/HR)				20						
TIME LANDING READINGS TAKEN 0646				PRIVACY ACT MATERIAL REMOVED						
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:				
EXPERIMENTAL FILM BADGES										
CANOPY				INTEGRON						
NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
733036	1060	733037	800							

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MAY 67

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(AFR 190-16)

PRIVACY ACT MATERIAL REMOVED

FILTER RECOVERY DATA COLLECTION SHEET

SHOT TITLE:

SHOT TIME: ::

043

TAKEN BY

(APR 100-10)

CHECK TIME:

0500-30, 0515-45, 0530-60, 0545-75, 0600-90, 0615-105, 0630-120,

0645-135, 0700-150, 0730-180

	A/C - SAMPLE	READING TIME	READING R:HH	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	672 R	0615	1.4	105"	1x10 14		
2	672 L	0620	1.2	110"	9x10 14		
3	958 R	0627	1.1	117"	9x10 8 14		
4	958 L	0630	1.0	120"	8x10 14		
5	960 R	0633	0.7	123"	6x10 14		
6	960 L	0636	0.6	126"	5x10 14		
7	727 R	0640	0.6	130"	5x10 14		
8	727 L	0642	0.6	132"	5x10 15		
9	054 R	0645	2.2	135"	2x10 15		
10	054 L	0648	2.7	138"	2.5x10 15		
11	502 R ₁	0650	4.7	140"	4.2x10 15		
12	502 R ₂	0653	3.9	143"	4 x10 15		
NOTES:					15		
	502 L	0657	8.0	147"	8 x10		

[illegible]

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AIRCRAFT DATA FORM						SHOT TITLE:			
PILOT:			TAKEOFF TIME:			SAMPLER CODE:			
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:			
			1015			043			
			1045			043			
FILM BASES		CREW EXPOSURE DATA				POSTEXPOSURE			
NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	727928	0	727929	0					
OBSERVER									
DATA CARDS									
CODE	INFORMATION		PENETRATION						
A	PASS NUMBER		1	2	3	4	5	6	7
B	ALTITUDE (1000')		4800	5200	5500				
C	PENETRATION TIME (LOCAL)		1036	1037	1038				
D'	PEAK CLOUD INTENSITY (R/HR)								
D''	AVERAGE CLOUD INTENSITY (R/HR)								
E	TIME IN CLOUD (MIN & SEC)		101	101	101				
F	EXPOSURE (INTEGRON IN R)								
G	COCKPIT BACKGROUND (R/HR)								
H	SAMPLE READING (WTIC IN R/HR)								
I	SQUEEGEE ON (YES OR NO)								
	INDICATED AIR SPEED (KNOTS)		130	130	130				
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 1090									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY			INTEGRON						
NUMBER	READING		NUMBER	READING					
728294	10		728295	10					

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AIRCRAFT DATA FORM						SHOT TITLE:					
PILOT:			TAKEOFF TIME:			SAMPLER CODE:					
			1015			Tiger Red I					
OBSERVER:			LANDING TIME:			AIRCRAFT NUMBER:					
			1045			037					
FILM BADGE			CREW EXPOSURE DATA			DOSIMETER					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	727930	0	727929	0							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				4800	5200	5590				
C	PENETRATION TIME (LOCAL)				1033	1034	1035				
D'	PEAK CLOUD INTENSITY (R/HR)										
D''	AVERAGE CLOUD INTENSITY (R/HR)										
E	TIME IN CLOUD (MIN & SEC)				101	101	101				
F	EXPOSURE (INTEGRON IN R)										
G	COCKPIT BACKGROUND (R/HR)										
H	SAMPLE READING (WTIC IN R/HR)										
I	SQUEEGEE ON (YES OR NO)										
	INDICATED AIR SPEED KNOTS				450	450	450				
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 1050											
PRIVACY ACT MATERIAL REMOVED											
LEAD VEST:				PILOT:				OBSERVER:			
☒ YES ☐ NO											
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
728292			10			728293			10		

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AIRCRAFT DATA FORM						SHOT TITLE: Stokes		
PILOT: PRIVACY ACT MATERIAL REMOVED				TAKOFF TIME: 0705		SAMPLER CODE: Tiger III		
OBSERVER:				LANDING TIME: 0800		AIRCRAFT NUMBER: 032		
FILM BADGE				CREW EXPOSURE DATA				
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732783	600	732782	555				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			23.5	23.2			
C	PENETRATION TIME (LOCAL)			0628	0632			
D'	PEAK CLOUD INTENSITY (R/HR)			7	8			
D''	AVERAGE CLOUD INTENSITY (R/HR)			3	3			
E	TIME IN CLOUD (MIN & SEC)			3	3			
F	EXPOSURE (INTEGRON IN R)			.15	.5			
G	COCKPIT BACKGROUND (R/HR)			.3	.9			
H	SAMPLE READING (WTIC IN R/HR)			88	29			
I	SQUEEGEE ON (YES OR NO)			No	No			
	INDICATED AIR SPEED (120 Knots)			320	320			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .6								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .75								
SAMPLE READING ON LANDING (WTIC IN R/HR) 7.2								
PRIVACY ACT MATERIAL REMOVED								
TIME LANDING READINGS TAKEN 0800								
LEAD VEST: ☒ YES ☐ NO				PILOT:		OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER	READING			NUMBER	READING			
733347	1330			733348	940			

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PRIVACY ACT MATERIAL REMOVED

FOUO [REDACTED]

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AIRCRAFT DATA FORM 5-16)						SHOT TITLE: Stokes					
PILOT:			TAKEOFF TIME: 0650			SAMPLER CODE: Tiger II					
OBSERVER:			LANDING TIME: 0740			AIRCRAFT NUMBER: 051					
FILM BADGE				CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	745278	785	745279	785							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				28						
C	PENETRATION TIME (LOCAL)				0716						
D'	PEAK CLOUD INTENSITY (R/HR)				35						
D''	AVERAGE CLOUD INTENSITY (R/HR)				10						
E	TIME IN CLOUD (MIN & SEC)				2:						
F	EXPOSURE (INTEGRON IN R)				.8						
G	COCKPIT BACKGROUND (R/HR)				1.2						
H	SAMPLE READING (WTIC IN R/HR)				45						
I	SQUEEGEE ON (YES OR NO)				Es						
	INDICATED AIR SPEED 205 Knots				900						
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) 36											
PRIVACY ACT MATERIAL REMOVED											
TIME LANDING READINGS TAKEN 0745											
LEAD VEST: ☒ YES ☐ NO				PILOT:				OBSERVER:			
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733457			1900			733458			1510		

FOUO [REDACTED]

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AIRCRAFT DATA FORM (AFR 190-16)						SHOT TITLE: Stokes					
PILOT:				TAKEOFF TIME: 0705		SAMPLER CODE: Tiger IV					
OBSERVER:				LANDING TIME: 0800		AIRCRAFT NUMBER: 055					
FILM BADGE				CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING			
PILOT	724398	630	724399	460							
OBSERVER											
DATA CARDS											
CODE	INFORMATION				PENETRATION						
A	PASS NUMBER				1	2	3	4	5	6	7
B	ALTITUDE (1000')				23/20	23					
C	PENETRATION TIME (LOCAL)				0729	0734					
D'	PEAK CLOUD INTENSITY (R/HR)				7	8					
D''	AVERAGE CLOUD INTENSITY (R/HR)				4	3					
E	TIME IN CLOUD (MIN & SEC)				2	6					
F	EXPOSURE (INTEGRON IN R)				.2	.5					
G	COCKPIT BACKGROUND (R/HR)				.3	.9					
H	SAMPLE READING (WTIC IN R/HR)				15	29					
I	SQUEEGEE ON (YES OR NO)				No	No					
	INDICATED AIR SPEED 240 Knots				320	320					
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)					.8						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)					.8						
SAMPLE READING ON LANDING (WTIC IN R/HR)					25						
TIME LANDING READINGS TAKEN 0800					PRIVACY ACT MATERIAL REMOVED						
LEAD VEST: ☒ YES ☐ NO				PILOT:			OBSERVER:				
EXPERIMENTAL FILM BADGES											
CANOPY						INTEGRON					
NUMBER			READING			NUMBER			READING		
733349			1410			733450			1020		

AIRCRAFT DATA FORM (FR 190-16)						SHOT TITLE: Stokes		
PILOT:			TAKEOFF TIME: 0650			SAMPLER CODE: Tiger I		
OBSERVER:			LANDING TIME: 0740			AIRCRAFT NUMBER: 043		
FILM BADGE			CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732780	700	732781	700				
OBSERVER								
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			30				
C	PENETRATION TIME (LOCAL)			0726				
D'	PEAK CLOUD INTENSITY (R/HR)			35				
D''	AVERAGE CLOUD INTENSITY (R/HR)			20				
E	TIME IN CLOUD (MIN & SEC)			21				
F	EXPOSURE (INTEGRON IN R)			.75				
G	COCKPIT BACKGROUND (R/HR)			1.25				
H	SAMPLE READING (WTIC IN R/HR)			40				
I	SQUEEGEE ON (YES OR NO)			No				
	INDICATED AIR SPEED 300 Knots			300				
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) 1								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.25								
SAMPLE READING ON LANDING (WTIC IN R/HR) 32								
TIME LANDING READINGS TAKEN 0740								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER	READING		NUMBER	READING				
733343	1570		733344	1295				

05/05/11 10:00:00 AM

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AIRCRAFT DATA FORM						SHOT TITLE: Stokes				
PILOT:			TAKEOFF TIME: 0635			SAMPLER CODE: Hot Shot I				
OBSERVER:			LANDING TIME: 0742			AIRCRAFT NUMBER: 504				
FILM BADGE			CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	732769	930	732768	1015						
OBSERVER	745281	815	745280	730						
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			38	36					
C	PENETRATION TIME (LOCAL)			0659	0713					
D'	PEAK CLOUD INTENSITY (R/HR)			18	10					
D''	AVERAGE CLOUD INTENSITY (R/HR)			5	4					
E	TIME IN CLOUD (MIN & SEC)			5:35	6:35					
F	EXPOSURE (INTEGRON IN R)			.5	.9					
G	COCKPIT BACKGROUND (R/HR)			.2	.6					
H	SAMPLE READING (WTIC IN R/HR)			16	28					
I	SQUEEGEE ON (YES OR NO)			No	No					
	INDICATED AIR SPEED (180 Knots)			180	180					
COCKPIT INTENSITY ON LANDING (R/SCAL IN R/HR) .4										
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) 1.2										
SAMPLE READING ON LANDING (WTIC IN R/HR) 20										
TIME LANDING READINGS TAKEN 0746 PRIVACY ACT MATERIAL REMOVED										
LEAD VEST: ☒ YES ☐ NO				PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES										
CANOPY					INTEGRON					
NUMBER		READING			NUMBER		READING			
733451		1960			733452		1180			

05/05/11 10:00:00 AM

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AIRCRAFT DATA FORM						SHOT TITLE: Stokes		
PILOT:			TAKEOFF TIME: 0720			SAMPLER CODE: Hot Shot II		
OBSERVER:			LANDING TIME: 0815			AIRCRAFT NUMBER: 495		
FILM BADGE			CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	745276	585	745277	570				
OBSERVER	745283	500	745282	500				
DATA CARDS								
CODE	INFORMATION			PENETRATION				
A	PASS NUMBER			1	2	3	4	5
B	ALTITUDE (1000')			29.5	28			
C	PENETRATION TIME (LOCAL)			0748	0751			
D'	PEAK CLOUD INTENSITY (R/HR)			20	15.8			
D''	AVERAGE CLOUD INTENSITY (R/HR)			10	8			
E	TIME IN CLOUD (MIN & SEC)			140	145			
F	EXPOSURE (INTEGRON IN R)			.3	.4			
G	COCKPIT BACKGROUND (R/HR)			.5	.6			
H	SAMPLE READING (WTIC IN R/HR)			20	18			
I	SQUEEGEE ON (YES OR NO)			No	No			
	INDICATED AIR SPEED XXX Knots			280	300			
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .4								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .71								
SAMPLE READING ON LANDING (WTIC IN R/HR) 12								
TIME LANDING READINGS TAKEN 0819				PRIVACY ACT MATERIAL REMOVED				
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733453		1060		733454		740		

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AIRCRAFT DATA FORM					SHOT TITLE: John				
PILOT:			TAKEOFF TIME: 070000Z0730		SAMPLER CODE: Not shot 1				
OBSERVER:			LANDING TIME: 0800		AIRCRAFT NUMBER: 496				
Film Badge CREW EXPOSURE DATA									
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	732646	520	732647	360					
OBSERVER	732648	335	732649	360					
Film Badge DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				26.7	26.7	26.4	26.5	
C	PENETRATION TIME (LOCAL)				0744	0745	0746.5	0748.5	
D'	PEAK CLOUD INTENSITY (R/HR)				30	25	32	30	
D''	AVERAGE CLOUD INTENSITY (R/HR)				20	15	15	12	
E	TIME IN CLOUD (MIN & SEC)				10	10	10	10	
F	EXPOSURE (INTEGRON IN R)				.05	.1	.2	.3	
G	COCKPIT BACKGROUND (R/HR)				.01	.2	.2	.2	
H	SAMPLE READING (WTIC IN R/HR)				5	6	9	13	
I	SQUEEGEE ON (YES OR NO)				No	No	No	No	
	INDICATED AIR SPEED 300 Knots				300	300	295	300	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .2									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .4									
SAMPLE READING ON LANDING (WTIC IN R/HR) 9									
TIME LANDING READINGS TAKEN 0800									
PRIVACY ACT MATERIAL REMOVED									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY					INTEGRON				
NUMBER		READING			NUMBER		READING		
733040		440			733041		335		

AIRCRAFT DATA FORM (FR 120-16)					SHOT TITLE: John			
PILOT: ...			TAKEOFF TIME: 0735		SAMPLER CODE: Hot shot II			
OBSERVER:			LANDING TIME: 0805		AIRCRAFT NUMBER: 500			
FILM BADGE CREW EXPOSURE DATA								
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING
PILOT	732674	335	732675	No Reading				
OBSERVER	732676	290	732677	No Reading				
DATA CARDS								
CODE	INFORMATION				PENETRATION			
A	PASS NUMBER				1	2	3	4
B	ALTITUDE (1000')				35	36	35	
C	PENETRATION TIME (LOCAL)				0655	0757	0800	
D'	PEAK CLOUD INTENSITY (R/HR)				15	15	15	
D''	AVERAGE CLOUD INTENSITY (R/HR)				10	10	6	
E	TIME IN CLOUD (MIN & SEC)				130	120	1 Min	
F	EXPOSURE (INTEGRON IN R)				.28	.23	.4	
G	COCKPIT BACKGROUND (R/HR)				10	1130	12 .4	
H	SAMPLE READING (WTIC IN R/HR)				8	6.5	16	
I	SQUEEGEE ON (YES OR NO)				No	No	No	
	INDICATED AIR SPEED XXXX Knots				250	250	250	
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .2								
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .45								
SAMPLE READING ON LANDING (WTIC IN R/HR) 12.5								
TIME LANDING READINGS TAKEN 0315								
PRIVACY ACT MATERIAL REMOVED								
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:		
EXPERIMENTAL FILM BADGES								
CANOPY				INTEGRON				
NUMBER		READING		NUMBER		READING		
733042		500		733043		500		

AIRCRAFT DATA FORM						SHOT TITLE: John	
PILOT:				TAKOFF TIME: 0630		SAMPLER CODE: Round-up	
OBSERVER:				LANDING TIME: 0845		AIRCRAFT NUMBER: 904	
FILM BADGE				CREW EXPOSURE DATA			
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER
PILOT	732644	90	732645	73			
OBSERVER	725092	55	725091	0			
DATA CARDS							
CODE	INFORMATION			PENETRATION			
A	PASS NUMBER			1	2	3	4
B	ALTITUDE (1000')			20/25	20/21	20/22	
C	PENETRATION TIME (LOCAL)			0735	0737	0739	45
D'	PEAK CLOUD INTENSITY (R/HR)			.15			
D''	AVERAGE CLOUD INTENSITY (R/HR)			.05		.05	
E	TIME IN CLOUD (MIN & SEC)			120	?	130	
F	EXPOSURE (INTEGRON IN R)						
G	COCKPIT BACKGROUND (R/HR)						
H	SAMPLE READING (WTIC IN R/HR)						
I	SQUEEGEE ON (YES OR NO)						
	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)				PRIVACY ACT MATERIAL REMOVED			
TIME LANDING READINGS TAKEN							
LEAD VEST: ☐ YES ☒ NO				PILOT:		OBSERVER:	
EXPERIMENTAL FILM BADGES							
CANOPY				INTEGRON			
NUMBER	READING			NUMBER	READING		
733038	55			733039	35		

PRIVACY ACT MATERIAL REMOVED

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AIRCRAFT DATA FORM						SHOT TITLE: John			
PILOT:			TAKEOFF TIME: 0740			SAMPLER CODE: Hot Shot III			
OBSERVER:			LANDING TIME: 0858			AIRCRAFT NUMBER: 495			
FILM BADGE		CREW EXPOSURE DATA							
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING	
PILOT	732678	430	732679	430					
OBSERVER	732680	385	732681	405					
DATA CARDS									
CODE	INFORMATION				PENETRATION				
A	PASS NUMBER				1	2	3	4	5
B	ALTITUDE (1000')				36	37.5	37.5		
C	PENETRATION TIME (LOCAL)				0824	0821	0827		
D'	PEAK CLOUD INTENSITY (R/HR)				70	15	40		
D''	AVERAGE CLOUD INTENSITY (R/HR)				35	10	30		
E	TIME IN CLOUD (MIN & SEC)				125	120	115		
F	EXPOSURE (INTEGRON IN R)				.2	.23	.35		
G	COCKPIT BACKGROUND (R/HR)				.1	.1	.15		
H	SAMPLE READING (WTIC IN R/HR)				618	8.6	15		
I	SQUEEGEE ON (YES OR NO)				No	No	No		
	INDICATED AIR SPEED XXXX Knots				235	230	245		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR) .15									
TOTAL EXPOSURE ON LANDING (INTEGRON IN R) .4									
SAMPLE READING ON LANDING (WTIC IN R/HR) 12									
TIME LANDING READINGS TAKEN 0845									
PRIVACY ACT MATERIAL REMOVED									
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:			
EXPERIMENTAL FILM BADGES									
CANOPY					INTEGRON				
NUMBER		READING		NUMBER		READING			
733044		655		733045		550			

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AIRCRAFT DATA FORM 770-16)					SHOT TITLE: John					
PILOT:			TAKEOFF TIME: 0735		SAMPLER CODE: Hot Shot IV					
OBSERVER:			LANDING TIME: 0923		AIRCRAFT NUMBER: 501					
FILM BADGE					CREW EXPOSURE DATA					
	NUMBER	READING	NUMBER	READING	NUMBER	READING	NUMBER	READING		
PILOT	727909	315	727910	225						
OBSERVER	732687	250	732686	235						
DATA CARDS										
CODE	INFORMATION			PENETRATION						
A	PASS NUMBER			1	2	3	4	5	6	7
B	ALTITUDE (1000')			42.5	42.5	43.3	41.6	41.5		
C	PENETRATION TIME (LOCAL) 16			32h	37h	40	47			
D'	PEAK CLOUD INTENSITY (R/HR)			1	4	2	7	4		
D''	AVERAGE CLOUD INTENSITY (R/HR)			.3	2	1	5	1		
E	TIME IN CLOUD (MIN & SEC)			1:30	1:1	1:1	1:1	6min		
F	EXPOSURE (INTEGRON IN R)			.04	.08	.09	.14	.25		
G	COCKPIT BACKGROUND (R/HR)			0	0	0	0	0		
H	SAMPLE READING (WTIC IN R/HR)			0	0	2	6	6		
I	SQUEEGEE ON (YES OR NO)			No	No	No	No	No		
	INDICATED AIR SPEED XXXI Knots			210	220	220	210	215		
COCKPIT INTENSITY ON LANDING (RASCAL IN R/HR)				0						
TOTAL EXPOSURE ON LANDING (INTEGRON IN R)				.28						
SAMPLE READING ON LANDING (WTIC IN R/HR)				4						
TIME LANDING READINGS TAKEN 0923				PRIVACY ACT MATERIAL REMOVED						
LEAD VEST: ☒ YES ☐ NO			PILOT:			OBSERVER:				
EXPERIMENTAL FILM BADGES										
CANOPY			INTEGRON							
NUMBER	READING		NUMBER	READING						
Lost badge	Lost badge		733150	335						

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PRIVACY ACT MATERIAL REMOVED

(AFR 190-16)

FILTER RECOVERY DATA COLLECTION SHEET						SHOT TITLE:	
SHOT TIME: 0700						TAKEN BY: John	
CHECK TIME: 0715=15 Min, 0730=30 min, 0745=45 min, 0800=60 min, 0815=75 min, 0830=90 min, 0845=105 min, 0900=120 min							
	A/C - SAMPLE	READING TIME	READING R/HR	ELAPSED TIME	FISSIONS	AGENCY	REPRESENTATIVE
	A	B	C	D	E	F	G
1	501-L-1	0930	240.mr	150"	4. X 10 ¹⁴		15
2	501-L-2	0932	210.mr	152 "	3.5 X 10 ¹⁴		147 X ¹⁰
3	501-R-1	0936	200.mr	156"XXX	3.4X 10 ¹⁴		
4	501-R-2	0937	220.mr	157"	3.8X 10 ¹⁴		
5	504-L-1	0940	1.2 R	160"	2.1X 10 ¹²		
6	504-L-2	0945	1.0 R	165"	1.7X 10 ¹²		
7	504-R-1	0950	1.2 R	170"	1.8X 10 ¹²		
8	504-R-2	0950	.5 mr	170"	9. X 10 ¹¹		
9							
10							
11							
12							
NOTES:							

