



AIRAL FLIGHT  
 SYSTEM NO. \_\_\_\_\_  
 VEHICLE NO. \_\_\_\_\_  
 MISSION NO. 901

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In Accordance with E. O. 12958

on NOV 26 1997

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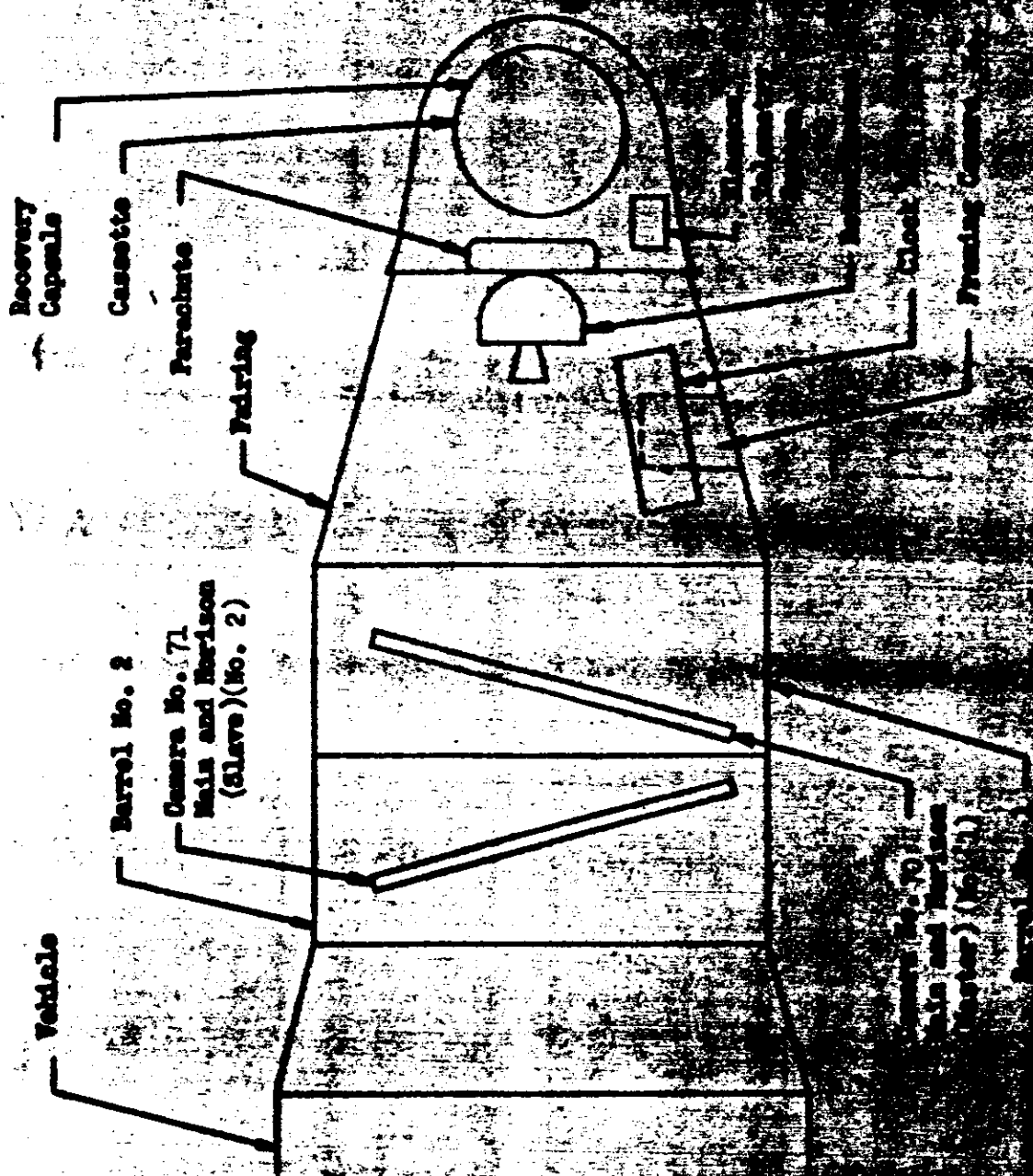
VEHICLE NO. 112  
MISSION NO. 201  
CAMERA NO. 70 & 71

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VEHICLE NO. 2  
MISSION NO. 71  
CAMERA NO. 71



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VEHICLE NO. 5118  
MISSION NO. 5011  
CAMERA NO. 70-71

GENERAL FLIGHT DATA:

Report No. \_\_\_\_\_  
Main Camera No. 1 Serial No. \_\_\_\_\_  
Main Camera No. 2 Serial No. \_\_\_\_\_  
Framing Camera Serial No. \_\_\_\_\_  
Launch Date \_\_\_\_\_

Orbital Parameters: (Rev. 33)

Period 90.55 Min. Eccentricity 0.18  
Perigee 115 NM Perigee Altitude \_\_\_\_\_  
Apogee 224 NM Inclination Angle 62.30 Deg

Recovery Revolution No. 65  
Recovery Date 3-3-62

REMARKS:

1. Framing camera did not operate on this mission.
2. Performance Estimate:
  - (a) Latitude coverage is estimated full stereo coverage. Camera 71 will have about 6 frames or one degree coverage at the stereo turn on latitude.  
Camera 70 will have about 6 frames or one degree coverage at the stereo turn off latitude.
  - (b) Exposure times are calculated using average cycle period for two cameras adjusted for in flight variations.
  - (c) Operation 57DXL covered by camera No. 70 only.

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ACTED BY \_\_\_\_\_  
 VERIFIED BY 1123  
 MISSION NO. 1001  
 CAMERA NO. 10671

**FRE-LAUNCH INFORMATION**

V/H Programmer Set On Stop 1

Main Camera Settings:

Main Optics Slit Width \_\_\_\_\_

Horizon Optics Exposure Time 1/500 1/1000 Sec. 1/1000

Horizon Optics Aperture F 6.3 F 8.0

Framing Camera Settings:

Exposure Time 1/250

Aperture F 6.3

Ratio: One Framing Camera Frame Per \_\_\_\_\_  
 Camera No. 1 Frames

**Film:**

	Camera No. 70	Camera No. 71	Framing Camera
Type	<u>J 23</u>	<u>J 23</u>	<u>SO-170</u>
Length	<u>7600</u>	<u>7600</u> Ft.	<u>150</u> Ft.
No. of Splices	<u>1</u>	<u>1</u>	<u>None</u>
Emulsion Data	<u>16-6-5-1-2</u>	<u>16-5-10-1</u>	<u>1-5</u>

Note: See Horizon Lens Exposure Time Data Page 19

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VEHICLE NO. 112  
 POSITION NO. 1031  
 CAMERA NO. 78-2-11

OP NO.	RAMP NO.	TIME ON RAMP	INLET		APP. VIB. (MAY BE IN)	TIME	MAY	MAY
			ON	OFF				
PL	h							
OR	h							
IDR	h		56.5	51.5	27 21 08			
20DK1	h	824	73.0	63.5	27 21 34			
3DY1	10	1011	61.5	56.5	28 08 08			
5DY1	10	803	75.0	70.5	28 03 06			78.5
5DY2	10	1131	54.5	41.5	28 08 22	209	71	185
6AE	10	-	44.5	46.5	28 01 23	15		
7DK1	5	866	71.5	62.5	28 06 09	188	106	113
8DK1	5	885	70.5	65.5	28 07 40	188		113
9AE	5	-	36.5	38.5	28 08 52	15		
9DY1	10	996	63.0	62.5	28 09 12	15		
18DY1	10	937	69.5	61.5	28 22 46	188		
19DY1	10	1060	61.5	58.5	01 00 18	128		
20DY1	10	1180	53.5	41.0	01 01 51	209		
21DY1	10	849	75.0	70.5	01 03 16	105		
21DY2	10	1087	60.5	50.0	01 03 20	177		
21DY3	10	1504	33.0	24.0	01 03 27	145	58	152
22DY1	10	1086	61.0	54.0	01 04 50	124	43	114
23DY1	10	1057	62.5	44.0	01 06 20	204		
24AE	10	-	36.5	38.5	01 07 31	15		
24DY1	10	904	73.0	54.0	01 07 48	312	110	290
25DY1	10	1064	62.5	47.5	01 09 22	259	94	249
34DY1	10	1111	56.5	55.5	01 22 58	41	15	40
35DY1	10	1110	61.0	55.0	02 00 14	113	37	92
36DY1	10	911	74.5	70.0	02 01 55	95		
36DY2	10	1230	63.5	41.0	02 02 00	209		
37DY1	10	900	74.5	69.5	02 03 25	105		
37DY2	10	1121	60.5	60.0	02 03 29	193		
37DY3	10	1480	37.0	23.5	02 03 35	220	85	224
38DY1	10	1135	60.0	53.5	02 04 59	124		
39DY1	10	1107	62.5	43	02 06 29	10		
40AE	10	-	36.5	38.5	02 07 40	15		
41DK1	5	954	72.0	68.5	02 07 57	111		
41DK2	5	972	71.5	62.5	02 09 28	159		
47DK1	5	1368	66.5	39.5	02 18 37	119		
54DY1	10	1162	61.0	62.0	03 08 08	201		
55DY1	10	1150	61.0	62.5	03 06 38	204		
56AE	10	-	36.5	38.5	03 07 48	15		
56DK1	5	997	72.5	62.0	03 08 05	156	161	177
57DK1	5	1014	65.5	48.0	03 09 41	148	151	148

PRINT

PRICE OF AIRS  
 10-10  
 CAMERA NO. 70

V/H Ramp	Cycle Period Seconds	Rad. Per Second	In. Per Second
4 Start	4.23	.020	.476
4 End	2.41	.035	.794
5 Start	3.75	.023	.523
5 End	2.38	.035	.794
10 Start	3.78	.022	.536
10 End	2.36	.036	.851

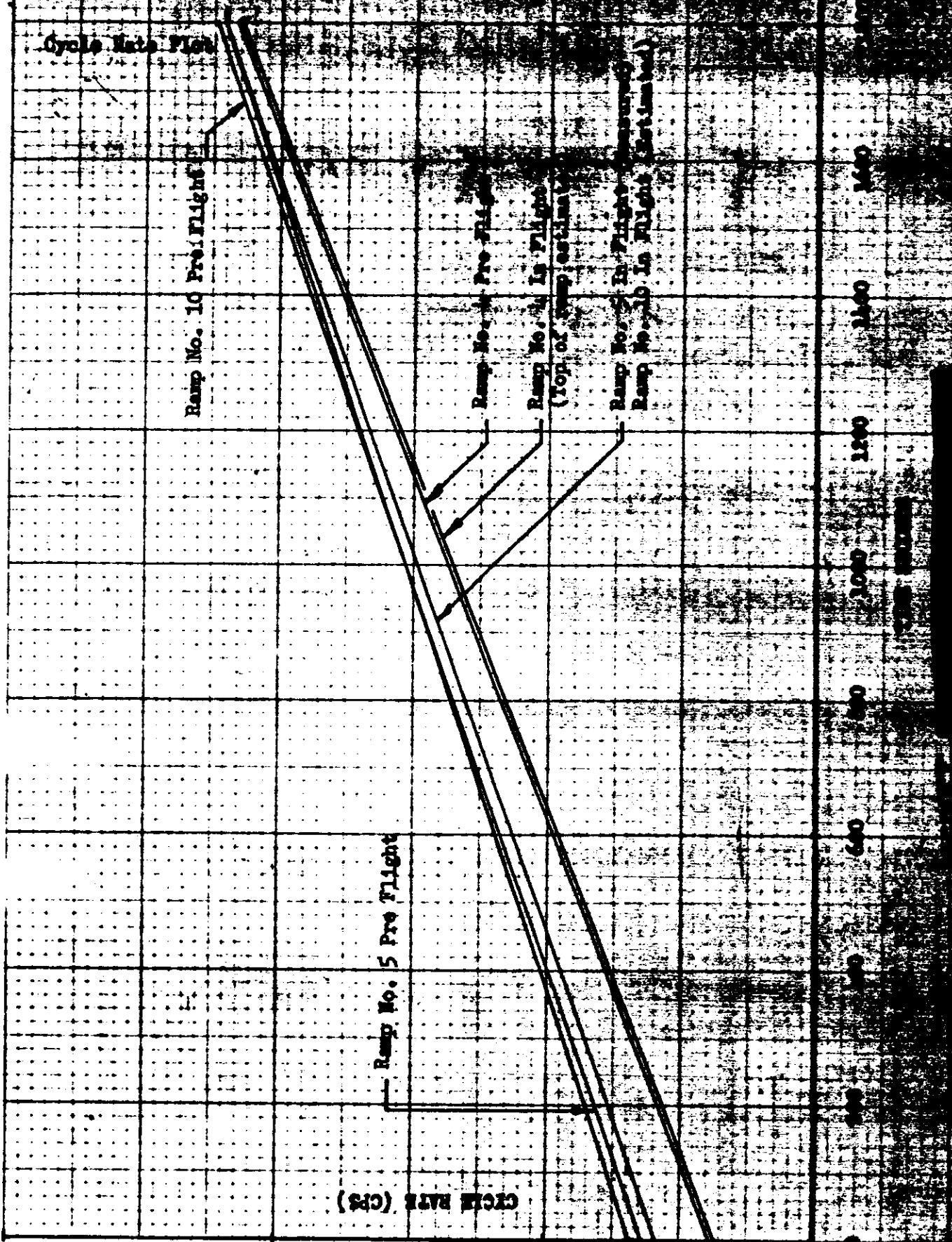
IN-FLIGHT CYCLE PERIOD: (CAMERA NO. 70)

Rev.No.	V/H Ramp	Cycle Period Seconds	FIC Rate		Scan Rate	
			Rad. Per Second	In. Per Second	Rad. Per Second	In. Per Second
1	4 Start	4.27	.019	.476	1.472	35.35
9	5 Start	3.87	.022	.523	1.624	39.06
24	10 Start	3.87	.022	.523	1.624	39.06
40	10 Start	3.87	.022	.523	1.624	39.06
47	5 <sup>On</sup> Ramp	2.55	.033	.794	2.482	59.16
56	10 Start	3.90	.021	.514	1.542	37.50

10-10  
 CAMERA NO. 70

VEHICLE NO. 112  
MISSION NO. 1001  
CAMERA NO. 10

Cycle Rate Plot



Ramp No. 10 Pre-Flight

Ramp No. 11 Pre-Flight

Ramp No. 12 In Flight  
(Top of ramp estimate)

Ramp No. 5 In Flight  
Ramp No. 10 In Flight (bottom)

Ramp No. 5 Pre Flight

CYCLE RATE (CPS)

0.5

0.4

0.3

0.2

600 800 1000 1200 1400

ENGINEERING DEPARTMENT

PART 4

DIETZGEN

NU

