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HEADQUARTERS TASK GROUP 7.4



Delaney
3/13/67/13

OPERATION ORDER NO. 4-54

HOWELL M. ESTES, JR.
BRIGADIER GENERAL, USAF
COMMANDER

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CLASSIFICATION CANCELLED
 BY AUTHORITY OF DOE/OC*
Col. H. Estess 4/29/86
 REVIEWED BY _____ DATE _____

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HEADQUARTERS
TASK GROUP 7.4, PROVISIONAL
APO 187, c/o Postmaster
San Francisco, California
29 March 1954, 1800M

OPERATIONS ORDER NO. 4-54

CHART REFERENCES:

- a. World Aeronautical Charts (748, 749, 848, 849, 850) 1:1,000,000.
- b. USAF Aeronautical Planning Chart (AF-14) 1:5,000,000.

TASK ORGANIZATION:

- a. Headquarters Task Group 7.4,
Provisional Brigadier General Howell M, Estes, Jr.
- b. Test Aircraft Unit Lt Colonel James A. Watkins
- c. Test Services Unit Lt Colonel Mahlon B. Hammond
- d. Test Support Unit Colonel James F. Starkey

1. GENERAL SITUATION:

Joint Task Force SEVEN and its Task Groups have successfully completed ROMEO Mission. The mission covered by this Operations Order is assigned the code name KOON. Its execution day is K-Day. Aircraft positioning in space at H-Hour and flight patterns are issued as annexes here to. This order is a specific directive to all elements of the Air Force Task Group to execute their assigned missions in support of KOON. This order supplements Task Group 7.4 Operations Order 1-53 and 2-54 which are still in effect.

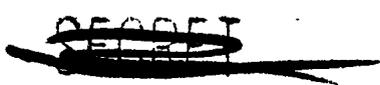
- a. See Annex A, Intelligence, TG 7.4 Operations Order 1-53.
- b. See Annex B, Organization and Command Relationships, TG 7.4 Operations Order 1-53.
 - (1) Task Group 7.3 will provide, to Task Group 7.4, aircraft control facilities aboard the Command Ship and the Control destroyer for the K-Day event. (See Annex A, Check List, this Operations Order and Annex T, Command Ship CIC Procedures; Annex J, Control Destroyer Procedures, Operations Order 2-54.)
 - (2) B-50 aircraft of the 97th Bomb Wing (Medium) will participate on K-Day. (See Annex O, B-50 IBDA Flight Procedures, TG 7.4 Operations Order 2-54 and Annex A, Check List, this Operations Order.)

2. MISSION:

To participate in the KOON Event as directed by Joint Task Force SEVEN.

3. TASKS FOR SUBORDINATE UNITS:

- a. Test Aircraft Unit:
 - (1) Execute assigned mission to include that specified in Annex A.
 - (2) Provide twelve (12) F-84 aircraft for necessary sampling mission for K-Day. (See Annex H, Operations Order 2-54.)



- (3) Provide four (4) B-36 aircraft for control, effects and sampling missions for K-Day. (See Annexes G, I, and K, Task Group 7.4 Operation Order 2-54.)
- (4) Provide one (1) B-47 aircraft for an effects mission on K-Day. (See Annex J, Task Group 7.4 Operation Order 2-54.)
- (5) Integrate the operations of three (3) B-50 aircraft into K-Day. (See Annex O, Operation Order 2-54.)
- (6) Assure adequate sample removal procedures for K-Day. (See Annex R, Task Group 7.4 Operation Order 2-54.)
- (7) Augment the field maintenance facilities of the Test Support Unit as required.
- (8) Provide for complete care, storage and issue of personal equipment to all aircrews of the Test Aircraft Unit.
- (9) Prepare the marshalling plan for all aircraft which will depart from ENIWETOK to participate in K-Day, and special missions.
- (10) Prepare a post mission parking plan for all aircraft that will land at ENIWETOK after the completion of their mission.
- (11) Prepare a mission execution chart and assure that take-offs and landings are accomplished as specified in Annex C.

b. Test Services Unit:

- (1) Provide three (3) C-54 photographic aircraft and crews for K-Day. (See Annex L, Task Group 7.4 Operation Order 2-54.)
- (2) Execute assigned missions, including that specified in Annex A.
- (3) Provide adequate SA-16 and other required SAR support to the AOC and CIC for operational control throughout the K-Day event. (See Annex F, Task Group 7.4 Operation Order 2-54.)
- (4) Provide adequate WB-29 weather reconnaissance, cloud tracking and sampling services throughout the K-Day event. (See Annex M, Task Group 7.4 Operation Order 2-54.)
- (5) Assure adequate pre-mission weather forecasting as required for the K-Day event.
- (6) Provide necessary weather briefings and weather reports to the CIC and AOC throughout the K-Day event.
- (7) Assure adequate communications facilities throughout the K-Day event.
- (8) Augment the field maintenance facilities of the Test Support Unit as required.
- (9) Coordinate with Test Aircraft Unit to assure that Test Services Unit aircraft are marshalled as required by that unit.
- (10) Provide for complete care, storage and issue of personal equipment to all aircrews of the Test Services Unit.

c. Test Support Unit:



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- (1) Assure that transient traffic and airlift operations do not interfere with or endanger test aircraft operations during the K-Day event. (See Annex A, TG 7.4 Operations Order 2-54.)
- (2) Provide two (2) C-47 aircraft for VHF relay for the K-Day mission. (See Annex F, TG 7.4 Operations Order 2-54.)
- (3) Establish required measures to prevent movement of vehicles from interfering with or endangering air operations throughout K-Day.
- (4) Provide adequate crash removal and fire fighting protection for all air operations on K-Day.
- (5) Place one (1) H-19 helicopter under the operational control of the SAR Element commander and one (1) crash boat under the operational control of the AOC from 27 February 1954 and continuing throughout the project. (See Annex F, TG 7.4 Operations Order 2-54.)
- (6) Assure adequate refueling and field maintenance support for all aircraft during the K-Day events.
- (7) Provide photographic coverage during K-Day operations for historical purposes.
- (8) In coordination with other Test Units, assure adequate transportation schedule from the flight line to the dining halls and billeting areas throughout the K-Day event.
- (9) Coordinate with Test Aircraft Unit to assure that C-47 REFLECTOR aircraft are marshalled as required by that unit.
- (10) Provide for aircraft decontamination.

x. All Units:

- (1) Provide liaison officers to assist Headquarters TG 7.4 aircraft controllers in the AOC, on the Command Ship and Control Destroyer as required. (See Annex K, TG 7.4 Operations Order 2-54.)
- (2) Coordinate with Test Support Unit to arrange required early dining schedules, in-flight lunches, transportation, etc., for the K-Day mission.
- (3) Adhere to security procedures as outlined in Annex G, Security and Public Information, TG 7.4 Operations Order 1-53.
- (4) Emphasize the Flight Safety Program outlined in Annex L, Flight Safety, TG 7.4 Operations Order 1-53 and other directives.
- (5) Be prepared to augment existing SAR facilities in emergencies during the K-Day event.
- (6) Be prepared to postpone execution of the mission for such periods as are made necessary by adverse weather or other unforeseeable events. (See Annex V, TG 7.4 Operations Order 2-54.)

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- (7) Assure proper reporting of radiation encountered by multi-engine aircraft. (See Annex W, TG 7.4 Operations Order 2-54.)
- (8) Conduct briefings as required. (See Annex X, TG 7.4 Operations Order 2-54.)

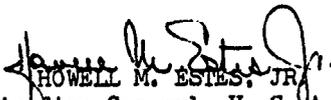
4. LOGISTICAL MATTERS:

See Annex C, Administration, TG 7.4 Operations Order No. 1-53.

5. COMMAND AND SIGNAL MATTERS:

- a. Communications: (See Annex E, TG 7.4 Operations Order 2-54)
- b. Time: Zone "M" (Local) Time.
- c. Command Posts:

- (1) Task Group 7.4 USS ESTES (AGC-12)
 - (a) Eniwetok Operations, Building #90, Eniwetok Island
- (2) Test Aircraft Unit Building 135, Eniwetok Island
- (3) Test Services Unit Building 135, Eniwetok Island
- (4) Test Support Unit Building 135, Eniwetok Island


HOWELL M. ESTES, JR.
Brigadier General, U. S. A. F.
Commander

ANNEXES:

See Page 5

DISTRIBUTION:

See Pages 6 & 7

ANNEXES

- A. Check List
- B. Aircraft Parking Plan
- C. Aircraft Mission Execution Chart
- D. Aircraft H-Hour Positions and Flight Patterns
- E. Communications
- F. SAR Plan
- G. Control RB-36 Flight Procedures
- H. F-84 Sampler Flight Procedures
- I. B-36 Effects Flight Procedures
- J. B-47 Effects Flight Procedures
- K. B-36 Hi-Altitude Sampler Flight Procedures
- L. C-54 Photo Flight Procedures
- M. WB-29 Weather and Rad Safe Flight Procedures
- N. Decontamination Procedures
- O. B-50 IBDA Flight Procedures
- P. C-47 Relay Flight Procedures
- Q. Observer Aircraft Flight Procedures
- R. Sample Recovery Procedures
- S. AOC Procedures
- T. CIC Procedures
- U. Control Destroyer Procedures
- V. Aircraft Abort Criteria
- W. Multi-Engine Aircraft Rad-Safe Reporting Code
- X. Briefings
- Y. Navy Aircraft Flight Procedures

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1	24	Comdr, ARS, Andrews AFB, Washington 25, DC
1	25	Comdr, 8th Air Force, Carswell AFB, Texas
1	26	Comdr, PACDIVMATS, APO 953, c/o PM, San Francisco, Calif
1	27	Comdr, 4925th Test Group (ATOMIC), Kirtland AFB, NM
1	28	Comdr, 11th Air Rescue Group, APO 953, c/o PM, San Francisco, Calif
1	29	Comdr, Air Defense Command, Ent AFB, Colorado
1	30	Comdr, Air Proving Ground Command, Eglin AFB, Fla
1	31	Comdr, 78th Air Rescue Sq, Box 26, FPO 824, c/o PM, San Francisco, Calif
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2	42 - 43	Comdr, TG 7.2, APO 187, c/o PM, San Francisco, Calif
5	44 - 48	Comdr, TG 7.3, APO 187, c/o PM, San Francisco, Calif
4	49 - 52	Comdr, TG 7.5, APO 187, c/o PM, San Francisco, Calif
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1	60	CO, NAVSTA, Kwajalein, Navy #824, c/o FPO, San Francisco, Calif

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10	61 - 70	Comdr, Test Aircraft Unit
10	71 - 80	Comdr, Test Services Unit
6	81 - 86	Comdr, Test Support Unit

HEADQUARTERS. TASK GROUP 7.4. PROVISIONAL. UNITS

1	87	Commander, TG 7.4
1	88	Deputy Commander
1	89	Chief of Staff
5	90 - 94	Director of Operations
2	95 - 96	Director of Personnel
2	97 - 98	Director of Materiel
1	99	Comptroller
1	100	Personnel Security Officer
1	101	Historian
15	102 - 116	Adjutant, Hq Task Group 7.4 (REAR), Kirtland AFB, NM

Annex A

ANNEX A

TO

OPERATIONS ORDER NO. 4-54

TASK GROUP 7.4 CHECK LIST

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX A

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
1	K-4	0700	Three (3) WB-29 Weather Reconnaissance missions per day begin.
2	K-4	0900	Positioning meeting at Hq, Task Group 7.1 to firm positions of all aircraft for KOON event.
3	K-4	1600	Publish Task Group 7.4 Operations Order 4-54.
4.	K-3	0800	Project participants arrive ENIWETOK.
5	K-3	1600	Task Group 7.4 personnel board USS ESTES.
6			Three (3) B-50 IEBA aircraft arrive at ENIWETOK from GUAM. Radio and IFF checked in these aircraft.
7	K-3	1700	JTF SEVEN notifies CINCPAC that ENIWETOK and BIKINI airstrip is closed to air traffic, only scheduled MATS and Official Observer flights will land at ENIWETOK.
8	K-3	1800	DOLL HOUSE begins constant listening watch on J-407. CIC scope controller assignment charts prepared.
9	K-2	0700	JTF SEVEN Official Observers arrive at ENIWETOK.
10	K-2	0800	CIC briefing by Senior Air Controller.
11	K-2	0900	AOC confirms requirements for post mission, inter-atoll airlift operations. Notify CIC of all confirmed missions.
12	K-2	1000	Mission flimsies issued to all aircrews by Test Acft Unit.
13	K-2	1300	CIC designates and briefs officer to stand by on Dr. Ogle's phone.
14	K-2		Required radiological instruments issued by Test Acft Unit to B-36 and B-29 Radiological Directors.

TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
15	K-2	1300	CIC checks Time Hack communications.
16	K-2	1300	Test Acft Unit designates mission tower officer.
17	K-2	1600	Three (3) sample return aircraft (FLY-AWAY 1, 2 and 3) arrive at EIWETOK.
18	K-1	0700	AOC insures that tower personnel are rebriefed on K-Day mission.
19			Test Spt Unit insures that crash removal crews are briefed and prepared for K-Day assignments.
20			Test Spt Unit insures that final assignments are made for messing and transportation during the mission.
21	K-1	0700	CIC completes arrangements with JOC to use direct line to Dr. Ogle.
22	K-1	0730	Aircraft Status Report submitted to CIC by AOC.
23			AOC submits full "Midnight Report" by 0800.
24	K-1	0800	General and specialized briefings begin.
25			CIC reports state of readiness of Task Group 7.4 to JTF SEVEN.
26	K-1	0900	Amphibious aircraft departs on rawindsonde and homer mission to RONGERIK.
27			JTF SEVEN personnel board USS ESTES.
28	K-1	1000	CIC secures ETD of Commander, Task Group 7.4 from AOC.
29	K-1	1100	CJTF SEVEN commander's conference.
30	K-1	1230	"Execute" order from CIC to AOC.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOOR	EVENT
31	K-1	1230	Commander, Task Group 7.4 departs ENIWETOK for USS ESTES.
32	K-1	1300	Marshaling of mission aircraft begins. Final position of DOLL HOUSE determined by Task Group 7.3 and Task Group 7.4.
33			Test Spt Unit checks crash phone operation.
34	K-1	1400	VIP aircrew specialized briefing.
35	K-1	1500	Commander, Task Group 7.4 boards USS ESTES. Last aircraft departs TARE.
36	K-1	1600	Test Acft Unit forwards any changes in operational plan to the AOC for dissemination to the CIC and other control agencies.
37			Director of Materiel inspects fire fighting and crash removal equipment.
38			Senior Controller makes final changes in Gen Estes's check list, if applicable.
39			One B-50 HARDTIME aircraft modified to include capability of crater photography.
40			USS ESTES leaves lagoon for H-Hour position.
41	K-1	1630	CIC Controller's dry run for Commander, Task Group 7.4.
42	K-1	1700	Test Acft Unit submits K-Day aircraft clearances to Base Operations.
43			PLANK-SLATER Report to Commander, Task Group 7.4 through AOC to CIC.
44	K-1	1720	Aircraft marshaling completed.

TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
45	K-1	1800	AOC communications and equipment checked.
46			Final muster report submitted to JOC.
47	K-1	1830	Deputy Commander, Task Group 7.4 in place at AOC and all commanders immediately available.
48	K-1	1845	CIC routine maintenance completed. Status reports received from Electronics Officer on: a. SPS-6 b. Mark 10 IFF c. VHF radio d. HF radio
49			CIC personnel briefed
50			CIC duty schedules firmed to include: a. Reporting time b. CIC crew reliefs set up c. Meal schedules arranged
51	K-1	2240	JTF SEVEN passes directive to Task Group 7.4 concerning flight #1 (WILSON 2) WB-29 cloud tracker.
52	K-1	2300 H-7:25	Deputy Commander and Staff, including weather fore-caster meet to finalize "Midnight Report".
53	K-1	2330 H-6:55	"Midnight Report" forward by AOC to CIC.
54	K-1	2325 H-7:00	DOLL HOUSE on station, begin listening watch on J-408.
55	K	0040 H-5:45	AOC fully manned.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
56	K	0100 H-5:25	Time check AOC to tower and Unit Operations.
57	K	0100 H-5:25	Wake up CIC Enlisted Crew. Receive final CIC Electronic Status Report.
58	K	0100 H-5:25	SAR alert crew and crash boat personnel in position at ENIWETOK.
59	K	0130 H-4:55	CIC posts weather and sea conditions.
60	K	0130 H-4:55	First aircraft position #1.
61	K	0135 H-4:50	CIC Enlisted crew reports for duty.
62	K	0135 H-4:50	CIC Scope Controller #5 reports for duty.
63	K	0135 H-4:50	Control Destroyer CIC fully manned.
64	K	0205 H-4:20	CIC Scope Controller #4 reports for duty.
65	K	0215 H-4:10	CIC Scope Controller #3 reports for duty.
66	K	0230 H-3:55	CIC posts weather and sea conditions.
67	K	0255 H-3:30	CIC checks time broadcast with Flag Plot.
68	K	0323 H-3:02	Time hack (Blink light 3 seconds - all aircraft for H-3 hours. CIC checks)
69	K	0325 H-3:00	Time Hack.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
70	K	0325 H-3:00	CIC checks time broadcast with Flag Plot.
71	K	" "	"Execute" order received by CIC from JOC; forward to AOC.
72	K	0330 H-2:55	CIC posts weather and sea conditions.
73	K	0330 H-2:55	CIC Scope Controller #6 reports for duty.
74	K	" "	CIC Scope Controller #1 reports for duty.
75	K	0420 H-2:05	Last VIKING aircraft departs FRED CIC reports to JOC.
76	K	0423 H-2:02	Time Hack-(<u>Blink</u> light 3 seconds - all aircraft for H-2 hours. CIC checks).
77	K	0425 H-2:00	H-2:00 Time Hack.
78	K	0430 H-1:55	CIC posts weather and sea conditions.
79	K	0435 H-1:50	CIC checks CASSIDY Homer (450 kcs).
80	K	0453 H-1:32	Time Hack (<u>Blink</u> light 3 seconds - all aircraft for H-1:30. CIC checks).
81	K	0455 H-1:30	H-1:30 Time Hack.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HR	MIN	EVENT
82	K	0523	H-1:02	CIC Time Hack (<u>Blink</u> light 3 seconds - all aircraft for H-1:00 time hack, CIC checks).
83	K	0525	H-1:00	H-1:00 Time Hack.
84	K	0530	H-0:55	CIC post weather and sea conditions.
85	K	0535	H-0:50	Actual winds aloft checked with airborne aircraft, CIC checks.
86	K	0536	H-0:47	CIC Time Hack (<u>Solid</u> light 3 seconds - HARDTIME and Effects aircraft for H-45 minutes.)
87	K	0540	H-0:45	H-0:45 Time Hack.
88	K	0545	H-0:40	DOLL HOUSE reports estimated position for H-Hour to CIC.
89	K	0553	H-0:32	CIC Time Hack (<u>Blink</u> light 3 seconds all aircraft for H-30 minutes).
90	K	0555	H-0:30	H-0:30 Time Hack
91	K	0600	H-0:25	Wake up relief CIC Enlisted Crews, CIC receives JOC report.
92	K	0600	H-0:25	Controller brief pilots on Time Hack.
92	K	"	"	SAR SA-16, H-19 and crash boat alerted by AOC for first F-84 take-off (15 minutes prior to TIGER-SNIFFER flight take-off).
92	K	0605	H-0:20	Radio transmissions held to a minimum.
95	K	"	"	CIC Officer stands by in JOC on direct line to Dr. Ogle to pass any message from Dr. Ogle to Gen Estes.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOOR	EVENT
111	K	0630 H/0:05	USS ESTES begins movement to safe position.
112	K	" "	CIC posts weather and sea conditions.
113	K	0640 H/0:15	JOC notifies CURTIS to come up on 400 kcs.
114	K	" "	CIC checks NAN, RONGERIK, CURTIS and CASSIDY homers.
115	K	" "	AOC checks towing of sample return aircraft to SW parking ramp.
116	K	0645 H/0:20	JOC instructs TG 7.3 to have one HRS on alert to pick up any crews forced to ditch or bail out in operational area. CIC checks.
117	K	0655 H/0:30	Relieve CIC and Enlisted Crew.
118	K	0700 H/0:35	CIC reports CASSIDY positions to AOC.
119	K	0725 H/1:00	CIC checks with AOC to insure completeness of sample removal plans for aircraft forced to land at KWAJALEIN.
120	K	0725 H/1:00	Project Participant's aircraft depart operational area for destination.
121	K	0730 H/1:05	CIC reports CASSIDY position to AOC
122	K	" "	CIC posts weather and sea conditions.
123	K	" "	WB-29 WILSON #2 cloud tracker departs ENIWETOK.
124	K	0745 H/1:20	CIC Scope Controller #7 reports for duty.
125	K	0755 H/1:30	Personnel in position on ENIWETOK for processing B-50 aircraft for departure after completion of mission. AOC checks.
126	K	0800 H/1:35	CIC reports CASSIDY position to AOC.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
127	K	0825 H/2:00	Helicopters dispatched to accomplish rad-safe survey and early recovery.
128	K	" "	Filter sample plus one monitor transported from FRED to ELMER via L-13 (Time of flight dependent upon time WB-29 lands).
129	K	0830 H/2:05	CIC post weather and sea conditions.
130	K	" "	CIC reports CASSIDY position to AOC.
131	K	0840 H/2:15	Gas sample bags and monitor transported from FRED to ELMER via H-19 helicopter.
132	K	" "	Filter sample plus one monitor transported from FRED to ELMER by L-13.
133	K	0850 H/2:25	CIC Scope Controller #2 reports for duty.
134	K	0900 H/2:35	Director of Materiel inspects HARDTIME aircraft for damage.
135	K	" "	CIC reports CASSIDY position to AOC.
136	K	0925 H/3:00	Initiate B. U. Action.
137	K	0930 H/3:05	CIC reports CASSIDY position to AOC.
138	K	" "	CIC posts weather and sea conditions.
139	K	1000 H/3:35	CIC reports CASSIDY position to AOC.
140	K	1025 H/4:00	CIC receives JTF SEVEN directive and passes it to AOC. Reference WILSON #3, WB-29 cloud tracker.
141	K	" "	Two (2) B-50 HARDTIME aircraft scheduled to depart ENIWETOK for GUAM. Third HARDTIME aircraft will depart for GUAM after crater photo mission is accomplished.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOOR	EVENT
142	K	1030 H/4:05	CIC posts weather and sea conditions.
143	K	" "	CIC reports CASSIDY position to AOC.
144	K	1100 H/4:35	CIC reports CASSIDY position to AOC.
145	K	1125 H/5:00	Relieve CIC Enlisted Crew.
146	K	" "	CIC checks with JOC Rad/Safe for recommendation concerning crater photography.
147	K	1130 H/5:05	CIC reports CASSIDY position to AOC.
148	K	1200 H/5:35	HRS survey of TARE lagoon checked by CIC.
149	K	" "	CIC reports CASSIDY position to AOC.
150	K	1225 H/6:00	LST's 551 and 1146 prepared to conduct emergency evacuation of ENIWETOK on one hour notice.
151	K	" "	WB-29 cloud tracker begins 12 hour post-shot rad/safe mission.
152	K	1230 H/6:05	CIC posts weather and sea conditions.
153	K	" "	CIC reports CASSIDY position to AOC.
154	K	" "	CIC request PEM for CTG 7.4.
155	K	1300 H/6:35	CIC reports CASSIDY position to AOC
156	K	1330 H/7:05	CIC posts weather and sea conditions.
157	K	" "	CIC reports CASSIDY position to AOC.
158	K	1345 H/7:20	FLYAWAY's 1 and 2 departs FRED for ZI with samples aboard.

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TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOOR	EVENT
159	K	1400 H/7:35	CIC reports CASSIDY position to AOC
160	K	1430 H/8:05	CIC posts weather and sea conditions.
161	K	" "	CIC reports CASSIDY position to AOC.
162	K	" "	Bottle gas samples transported from FRED to ELMER via L-13 (or possibly H-19). H-19 will be required if a bag sample is involved.
163	K	" "	CTG 7.4 and Senior Controller return to ENI-WETOK.
164	K	1440 H/8:15	One monitor plus 100 lbs of liquid samples (2 cu ft) transported from FRED to ELMER via L-13.
165	K	1500 H/8:35	CIC reports CASSIDY position to AOC.
166	K	1530 H/9:05	CIC posts weather and sea conditions.
167	K	" "	CIC reports CASSIDY position to AOC.
168	K	1700	ENIWETOK open to normal traffic.
169	K	2210 H/15:45	CIC advised of tracks for third WB-29 (WILSON 4) cloud tracking mission. Information passed to AOC through CIC, or from ELMER by telephone.
170	K/1	0730	Post-mission rest day. Only essential functions will be performed.
171	K/1	0800 H/25:35	Telemeter shot film records transported on PBM shuttle and helicopter from HAN to FRED.
172	K/1	0825 H/26:00	CIC advised of tracks for fourth WB-29 (WILSON 5) cloud tracking mission. Information passed to AOC through CIC or from ELMER by telephone.

~~SECRET~~
TASK GROUP 7.4 CHECK LIST

ITEM	DAY	HOUR	EVENT
173	K/1	1000	Transport gas samples plus courier and baggage from ELMER by H-19. These samples are destined for ZI via FLYAWAY #3.
174	K/1	1200	FLYAWAY #3 departs FRED for ZI with samples aboard.
175	K/2	0800	Commander's Operational Briefing.
176	"	"	Post-mission inspection to determine extent of any aircraft damage begins.
177	"	"	Decontamination of aircraft begins in accordance with established priority schedule.
178	K/2	1330	Unit Commanders report the operational status of their aircraft to CTG 7.4.
179	K/2	1500	Post-mission critique. Analysis of forecast weather (continues until completed).
180	K/2	1600	B-36 and scientific team meet to discuss KOON mission (continues until completed).

ANNEX B

ANNEX B

TO

OPERATIONS ORDER NO. 4-54

AIRCRAFT PARKING PLAN

(Limited distribution to be issued separately)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX B

B

ANNEX C

ANNEX C

TO

OPERATIONS ORDER NO. 4-54

AIRCRAFT MISSION EXECUTION CHART

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX C

C

SECOND COPY - PUBLISHED 1730 Hours, 31 March 1954

ANNEX C
TO
OPERATIONS ORDER NO. 4-54

<u>Call Sign</u>	<u>Pre-position</u> <u>K-1</u>		<u>Tow to</u> <u>Position</u>	<u>Runup</u> <u>Position</u>	<u>Start</u> <u>Engines</u>	<u>Position</u> <u>1</u>	<u>Position</u> <u>2</u>	<u>Position</u> <u>3</u>	<u>Position</u> <u>4</u>	<u>Position</u> <u>5</u>	<u>Position</u> <u>6</u>
	Not earlier than	Not later than									
Wilson 1	NR	NR	0055	In Place	0105	0135	0330	0435	0855	0920	0945
Elaine 1	1300	1320	NR	In Place	0115	0145	0220	0243	0627	0655	0905
Pewter 3	1520	1540	NR	RW	0142	0155	0232	0304	0825	0857	0927
Pewter 1	1540	1600	NR	RW	0152	0205	0240	0315	0725	0800	0840
Pewter 2	1600	1620	NR	RW	0202	0215	0251	0308	0755	0812	0842
Hard Time 1	1440	1500	NR	RW	0225	0245	0440	0506	0630	0655	0810
Hard Time 2	1420	1440	NR	RW	0240	0300	0440	0504	0630	0655	0815
Hard Time 3	1400	1420	NR	In Place	0245	0305	0440	0503	0640	0722	0820
Elaine 2	NR	NR	0301	RW	0315	0330	0345	0400	0625	0650	0720
Cassidy	1320	1340	0145	In Place	0310	0340	0410	0455	1325	1455	1537
Stable 1	NR	NR	NR	RW	0345	0400	0445	0453	1225	1410	1451
Viking 1	1640	1700	NR	RW	0355	0410	0447	0522			
Viking 2	1700	1720	NR	RW	0400	0415	0452	0531			
Viking 3	1720	1740	NR	RW	0405	0420	0457	0532			
Reflector	NR	NR	NR	RW	0425	0440	0520	0520	1025	1025	1109
Tiger Sniffer 1 & 2	NR	NR	0530	RW	0607	0615	0656	0710	0805	0819	0850
Stable 2	NR	NR	NR	RW	0603	0632	0717	0733	1225	1305	1345
Wilson 3	NR	NR	0635	In Place	0645	0715	0755	0825	1420	1450	1520
Wilson 2	NR	NR	0650	In Place	0700	0730	0805	0825	1755	2055	2125
Tiger Red 1 & 2	NR	NR	0655	RW	0728	0736	0752	0812	0905	0930	0955
Floyd 1	NR	NR	0635	In Place	0715	0745	0903	0955	1125	1158	1225
Tiger Red 3 & 4	NR	NR	0715	RW	0745	0753	0809	0830	0925	0951	1016
Tiger White 1 & 2	NR	NR	0740	RW	0811	0819	0834	0900	0955	1024	1049
Tiger White 3 & 4	NR	NR	0805	RW	0837	0845	0901	0930	1025	1054	1119
Floyd 2	NR	NR	0750	In Place	0830	0900	0925	1025	1155	1240	1325
Tiger Blue 1 & 2	NR	NR	0845	RW	0916	0924	0940	1010	1125	1200	1224
Tiger Blue 3 & 4	NR	NR	0905	RW	0936	0944	0957	1040	1155	1221	1246

Stable 3 - STAND-BY

NR - Not Required

RW - Run Way

ANNEX D

ANNEX D

TO

OPERATIONS ORDER 4-54

AIRCRAFT H-HOUR POSITIONS AND FLIGHT PATTERNS

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX D

D

~~TOP SECRET~~
ANNEX "D"
TO
OPERATIONS ORDER 4-54
AIRCRAFT H-HOUR POSITIONS AND FLIGHT PATTERNS

HEADQUARTERS
TASK GROUP 7.4, PROVISIONAL
APO 187, c/o Postmaster
San Francisco, California
31 March 1954, 1800M

1. H-Hour positions of all airborne aircraft relative to Ground Zero are designated in Appendix 1, "H-Hour A/C Positioning Chart".
2. Detailed H-Hour range, azimuth, attitude, air speed, altitude and route requirements for all airborne aircraft are designated in Appendix 2, "H-Hour A/C Flight Plans".
3. Flight patterns for aircraft airborne at H-Hour in the shot area are designated in the following appendices:
 - a. Appendix 3, "B-36 and B-47 Flight Patterns."
 - b. Appendix 4, "C-54 Flight Patterns."
 - c. Appendix 5, "B-50 IBDA Flight Patterns."
 - d. Appendix 6, "Observer Aircraft Flight Patterns".
4. All other aircraft airborne will execute orbits at H-Hour Stations.

OFFICIAL:

HOWELL M. ESTES, JR.
Brigadier General, U. S. A. F.
Commander

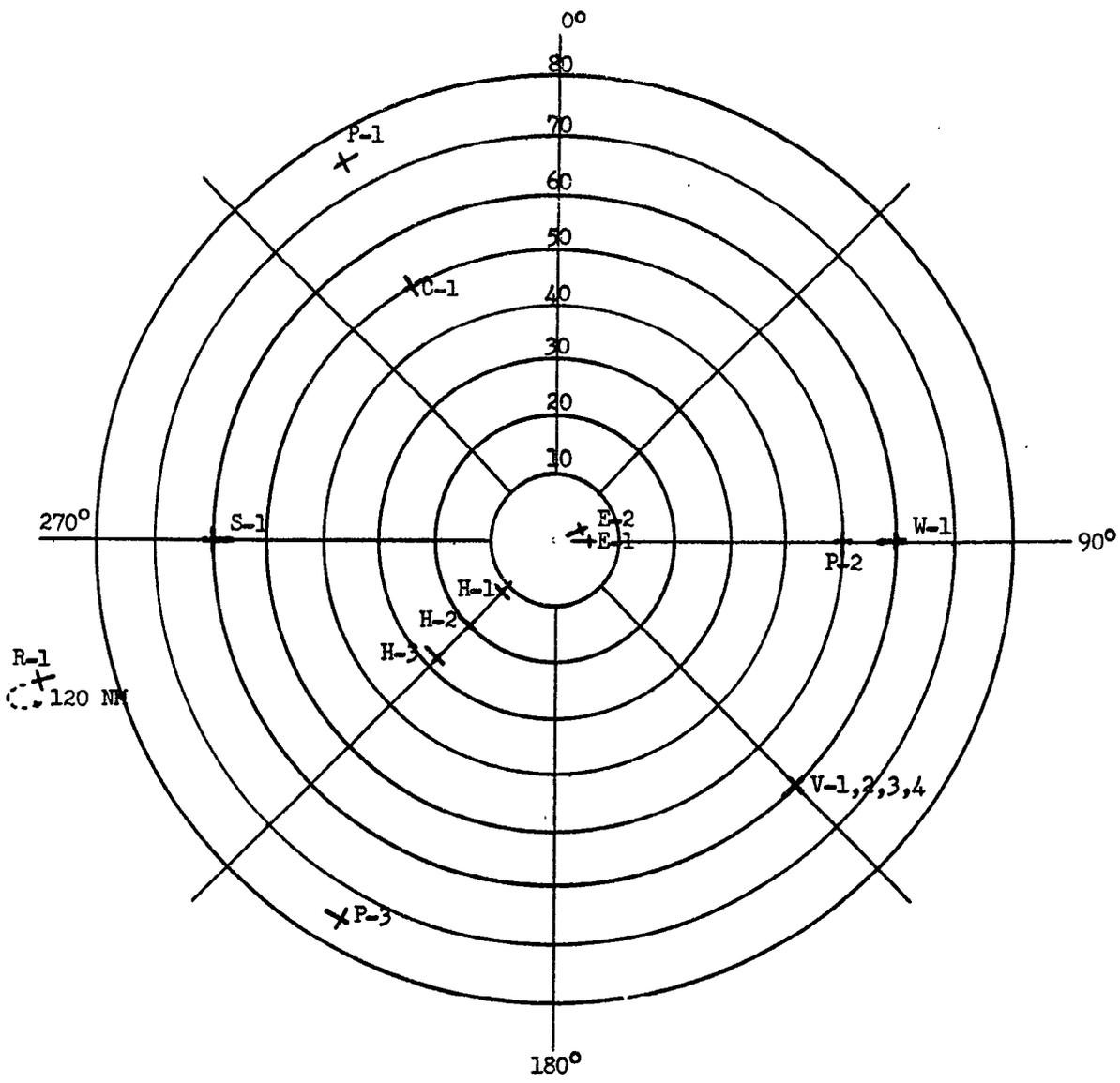
Paul H. Fackler
PAUL H. FACKLER
Lt Colonel, USAF
Director of Operations

6. Appendices:

1. H-Hour A/C Positioning Chart
2. H-Hour A/C Flight Plans
3. B-36 and B-47 Effects Aircraft Pattern
4. C-54 Photographic Aircraft Pattern
5. B-50 IBDA Aircraft Pattern
6. Observer Aircraft Pattern

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H-HOUR POSITIONING
DIAGRAM



R-1
⊕ 120 NM

⊕ In Orbit

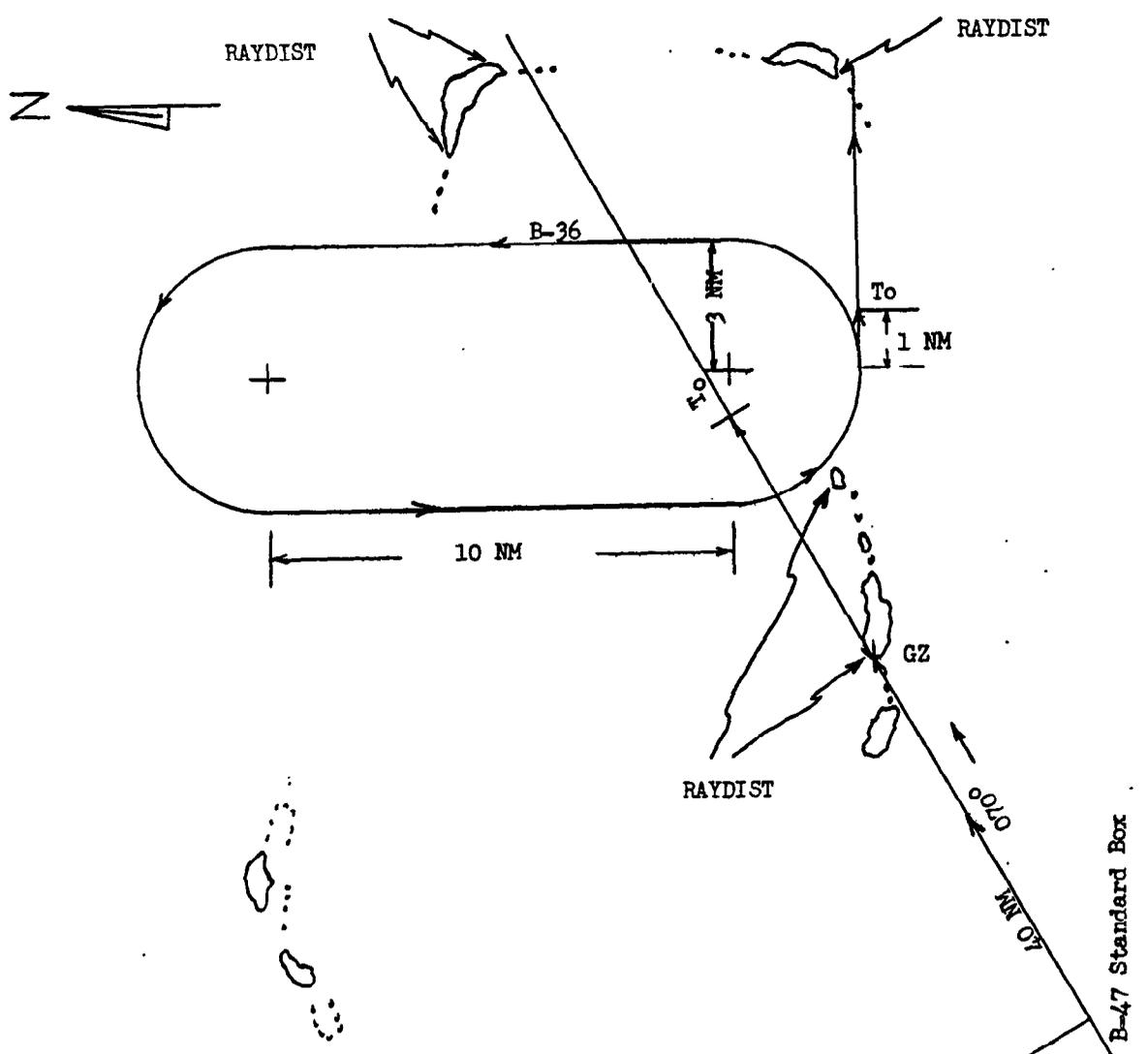
TASK GROUP
OPRS ORDER NO. 4-54
APNDX 1, ANNEX D

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D-1-1

APPENDIX 2
TO
ANNEX D
TO
OPERATIONS ORDER NO. 4-54
H-HOUR A/C
FLIGHT PLANS

<u>AIRCRAFT</u>	<u>RANGE</u>	<u>AZIMUTH</u>	<u>ATT</u>	<u>TAS</u>	<u>ALT (Thousand)</u>	<u>ROUTE</u>
ELAINE 2 B-47	34,700 ft X	90°	Tail	430K	35 Absolute	Direct to Orbit Position
ELAINE 1 B-36	34,960 ft X	90°	Tail	278K	40 Absolute	Direct to Orbit Position
CASSIDY 1 B-36 Control	50 NM X	330°	L Side	250K	40	Direct to Orbit Position
HARDTIME 1 B-50 #1	12 NM X	225°	Tail	280K	32 Absolute	Direct to Orbit Position
HARDTIME 2 B-50 #2	20 NM X	225°	L Side	280K	31 Absolute	Direct to Orbit Position
HARDTIME 3 B-50 #3	27 NM X	225°	L Side	280K	30 Absolute	Direct to Orbit Position
PEWTER 1 C-54 #1	75 NM X	330	L Side	170K	14	Direct to Orbit Position
PEWTER 2 C-54 #2	50 NM X	90°	L Side	170K	10.5	Direct to Orbit Position
PEWTER 3 C-54 #3	75 NM X	210°	L Side	175K	12.5	Direct to Orbit Position
STAHE 1 SA-16	60 NM X	270°	Orbit	120K	9.5	Direct to Orbit Position
WILSON 1 WB-29	60-65 NM X	90°	Tail	210K	25	T.O. H-4 on ENIWETOK Weather Survey pro- ceed to Command Ship to arrive at H-1:50
REFLECTOR 1 C-47	120 NM X	255°	Orbit	130K	8.5	Direct to Orbit Position
VIKING 1	60 NM X	135°	Side	_____	10	As Briefed
VIKING 2	60 NM X	135°	Side	_____	11	As Briefed
VIKING 3	60 NM X	135°	Side	_____	12	As Briefed
VIKING 4	60 NM X	135°	Side	_____	9	As Briefed

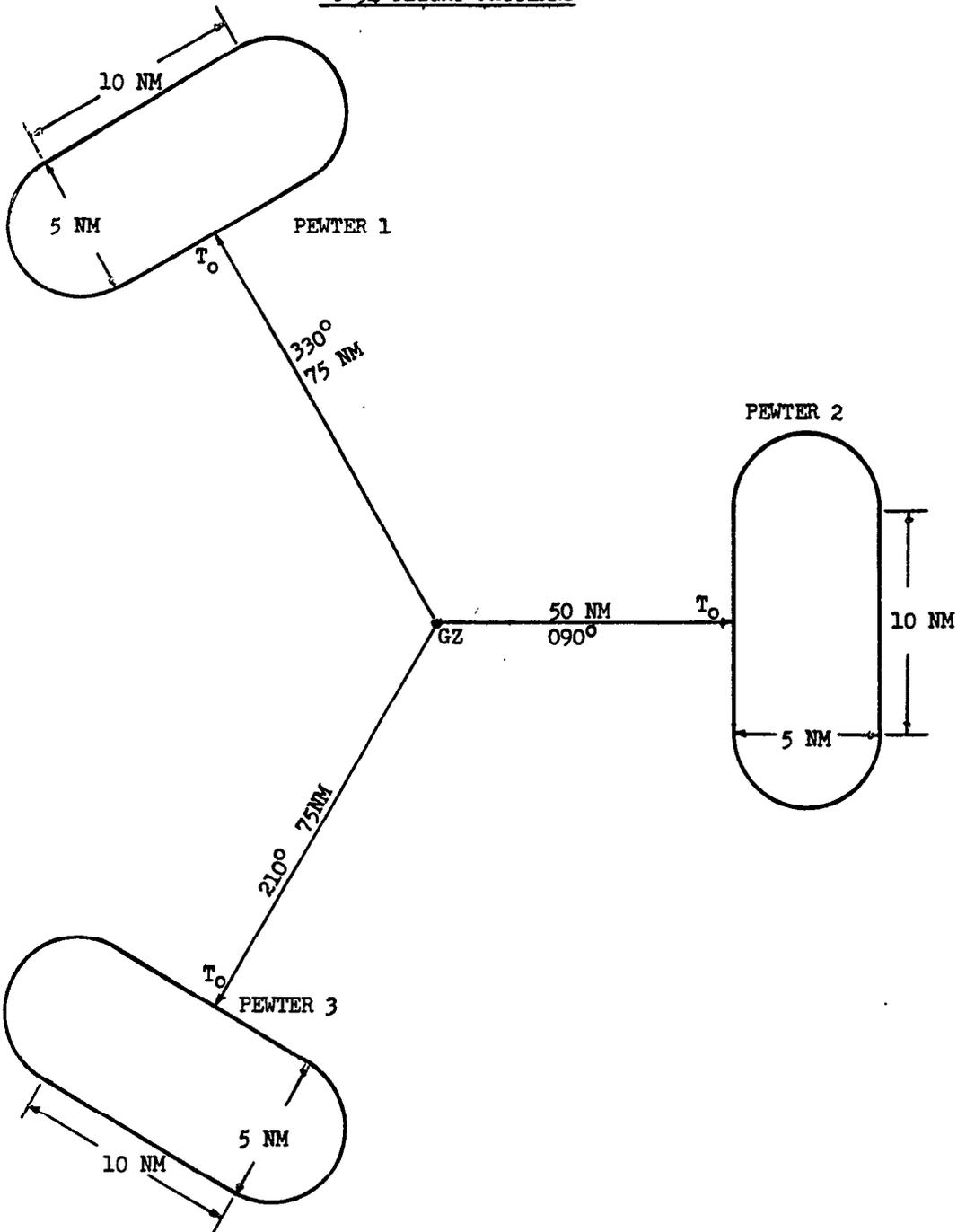
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 APPENDIX 3
 TO
 ANNEX "D"
 B-36 AND B-47 FLIGHT PATTERN



B-47
 ALT: B-47 = 35,000
 HORIZ RANGE at T_0 = 34,700
 TAS = 430
 BEARING = 070° from GZ

B-36
 ALT: B-36 = 40,000
 HORIZ RANGE at T_0 = 5.75 NM (34,960 ft)
 TAS = 278 KT
 BEARING = 090° from GZ

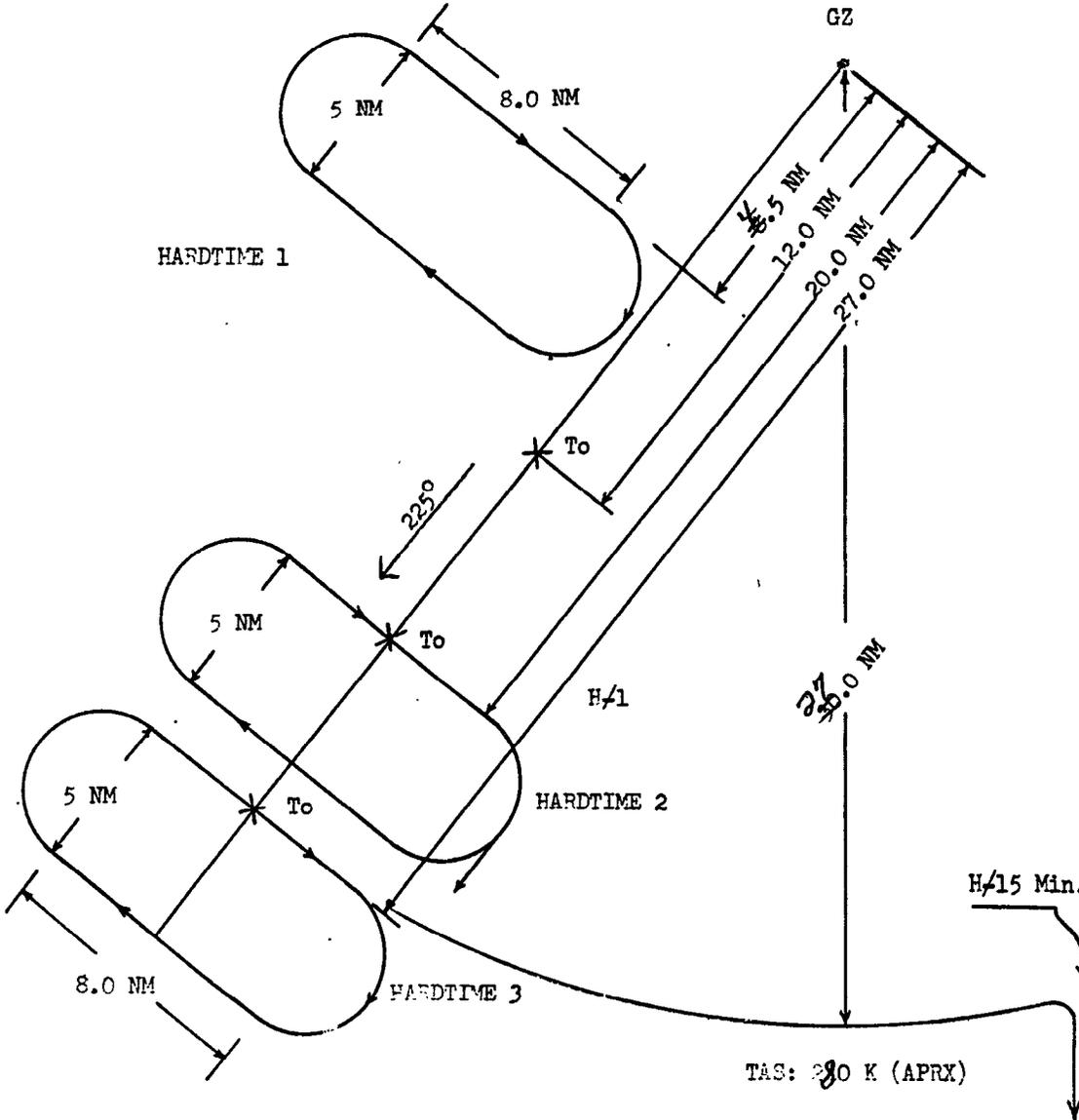
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APPENDIX 4
TO
ANNEX "D"
C-54 FLIGHT PATTERNS



TASK GROUP 7.4
OOPS ORDER NO. 4-54
APPNDX 4, ANNEX D

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 APPENDIX 5
 TO
 ANNEX "D"
 B-50 IBDA FLIGHT PATTERNS

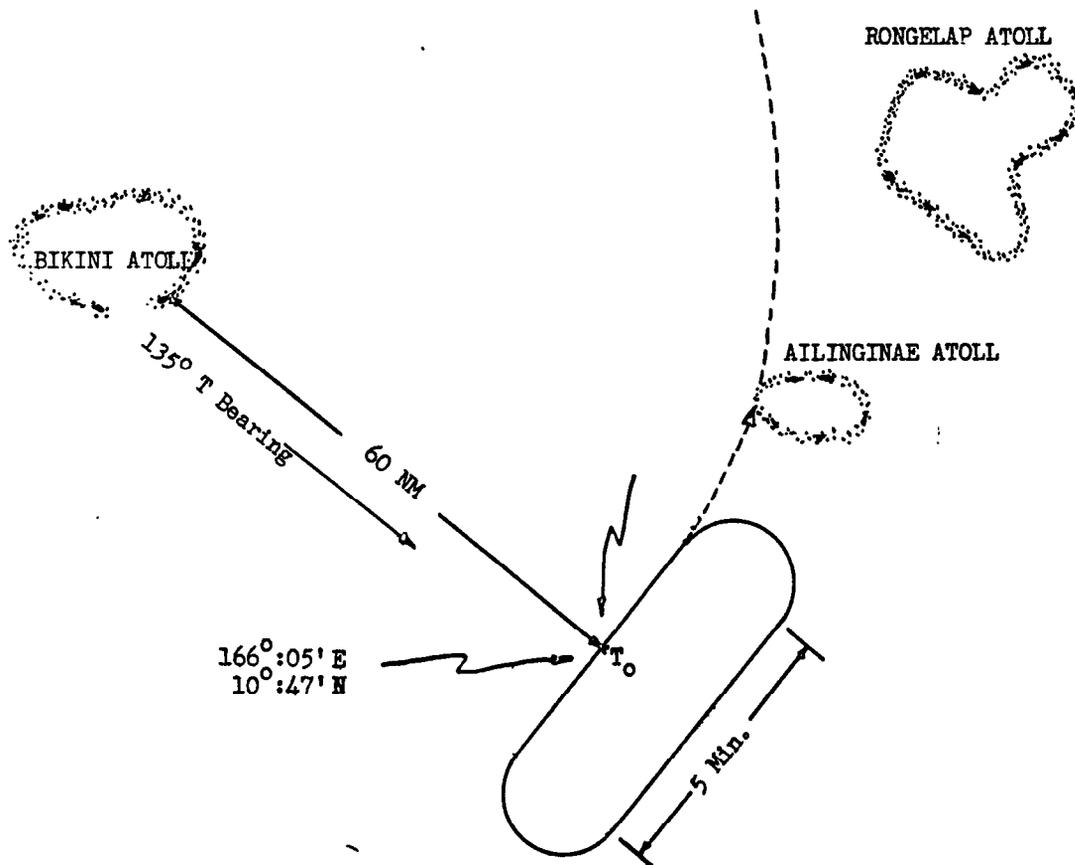


TASK GROUP 7.4
 OPBS ORDER NO. 4-54

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~~CONFIDENTIAL~~

APPENDIX 6
TO
ANNEX "D"
VIKING FLIGHT PATTERNS



Standard righthand race track pattern. 5 minute legs. All aircraft at different altitudes.

TASK GROUP 7.4
OPRS ORDER NO. 4-54
APPNDX 6. ANNEX D

ANNEX "E"

w/l Appendix con-
sisting of 5 pages

ANNEX "E"

TO

OPERATIONS ORDER NO. 4-54

COMMUNICATIONS

(TG 7.4 OPRS ORDER 2-54 APPLIES WITH THE EXCEPTION OF APPENDIX 5)

~~CONFIDENTIAL~~
APPENDIX 5

TO
ANNEX "E"
OPERATIONS ORDER NO. 4-54
COMMUNICATIONS
VOICE TIME SCRIPT

The following Voice Time broadcast script will be used in making voice time announcements on 126.18 MC. From FIFTEEN MINUTES through ZERO the script is transmitted from a tape recording and a distinctive TONE replaces the word HACK.

<u>TIME</u>	<u>ANNOUNCEMENT</u>
_____	This is BARRYMORE - Standby for time HACK - Standby for time HACK.
_____	In one minute the time will be - H MINUS THREE HOURS - H MINUS THREE HOURS.
<u>-30</u>	Thirty seconds.
<u>-50</u>	Ten seconds.
<u>-55</u>	Five seconds.
_____	HACK - H MINUS THREE HOURS.
_____	Next time HACK AT H MINUS TWO HOURS - Next time HACK AT H MINUS TWO HOURS.
_____	This is BARRYMORE - Standby for time HACK - Standby for time HACK.
_____	In one minute the time will be - H MINUS TWO HOURS - H MINUS TWO HOURS.
<u>-30</u>	Thirty seconds.
<u>-50</u>	Ten seconds.
<u>-55</u>	Five seconds.
_____	HACK - H MINUS TWO HOURS.
_____	Next time HACK at H MINUS ONE AND ONE HALF HOURS - Next time HACK AT H MINUS ONE AND ONE HALF HOURS.
_____	This is BARRYMORE - Standby for time HACK.
_____	In one minute the time will be - H MINUS ONE AND ONE HALF HOURS - H MINUS ONE AND ONE HALF HOURS.
<u>-30</u>	Thirty seconds.
<u>-50</u>	Ten seconds.
<u>-55</u>	Five seconds.
_____	HACK - H MINUS ONE AND ONE HALF HOURS.

~~CONFIDENTIAL~~

Next time HACK at H MINUS ONE HOUR - Next time HACK at H MINUS ONE HOUR.

_____ This is BARRYNORE - Standby for time HACK.

_____ In one minute the time will be - H MINUS ONE HOUR - H MINUS ONE HOUR.

_____ -30 Thirty seconds.

_____ -50 Ten seconds.

_____ -55 Five seconds.

_____ HACK - H MINUS ONE HOUR.

Next time HACK at H MINUS FORTY-FIVE MINUTES - H MINUS FORTY-FIVE MINUTES.

_____ In one minute the time will be H MINUS FORTY-FIVE MINUTES - H MINUS FORTY FIVE MINUTES.

_____ -30 Thirty seconds.

_____ -50 Ten seconds.

_____ -55 Five seconds.

_____ HACK - H MINUS FORTY-FIVE MINUTES.

_____ Next time HACK at H MINUS THIRTY MINUTES - Next time HACK at H MINUS THIRTY MINUTES.

_____ In one minute the time will be H MINUS THIRTY MINUTES - H MINUS THIRTY MINUTES.

_____ -30 Thirty seconds.

_____ -50 Ten seconds.

_____ -55 Five seconds.

_____ HACK - H MINUS THIRTY MINUTES.

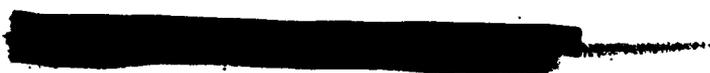
At H MINUS ONE MINUTE observers having special density goggles or lenses put them on - those not having special goggles or lenses, face away from ZERO POINT - Do not face ZERO POINT or remove goggles until FIRE BALL DISSIPATES.

To avoid eye injury binoculars or telescopes must not be used to view burst.

In the event of no detonation - Do not remove goggles and hold position until advised. In the event of no detonation - Do not remove goggles and hold position until advised.

Next time TONE at H MINUS FIFTEEN MINUTES.

_____ In one minute the time will be H MINUS FIFTEEN MINUTES - H MINUS FIFTEEN MINUTES.



~~SECRET~~
_____ -30 Thirty seconds until H MINUS FIFTEEN MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS FIFTEEN MINUTES.

_____ -30 Thirty seconds until H MINUS FOURTEEN MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS FOURTEEN MINUTES .

_____ -30 Thirty seconds until H MINUS THIRTEEN MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS THIRTEEN MINUTES.

_____ -30 Thirty seconds until H MINUS TWELVE MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS TWELVE MINUTES.

_____ -30 Thirty seconds until H MINUS ELEVEN MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS ELEVEN MINUTES.

_____ -30 Thirty seconds until H MINUS TEN MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS TEN MINUTES.

_____ -30 Thirty seconds until H MINUS NINE MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS NINE MINUTES.

_____ -30 Thirty seconds until H MINUS EIGHT MINUTES.

_____ -50 Ten seconds.

_____ -55 to 60 Five, four, three, two, one.

_____ TONE - H MINUS EIGHT MINUTES.

~~CONFIDENTIAL~~

- 35 Twenty-five seconds to ZERO TIME.
- 40 Twenty seconds to ZERO TIME.
- 45 Fifteen seconds to ZERO TIME.
- 50 to 60 Ten, nine, eight, seven, six, five, four, three, two, one, PHONE.
- 10 sec The shock wave will arrive in a few minutes - keep firm footing until wave passes.

An automatic time tape broadcast will be used from H-15 minutes through H-Hour. This broadcast will be synchronized with the device-firing timer, to insure time broadcast accuracy in relation to actual blast time. This broadcast will be continual, with counts down and hack tones given at each minute increment of the 15 minutes. BOUNDARY TARE will instruct participating aircraft when to switch to VHF Channel "B" for time hacks. Immediately upon determination by the aircraft commander that he has received an adequate time hack, he will return to his assigned control channel. All aircraft will remain on Channel "B" from H-3 minutes through H-Hour. (C-54 Photo Aircraft only are authorized to deviate from these instructions, during the period H-5 minutes through H-Hour, if such deviations are previously agreed upon by the pilots and their controllers.) All aircraft will switch back to assigned control channels immediately following H-Hour. In the event of malfunction of automatic tape broadcast, critical aircraft will be directed by BOUNDARY TARE to return to base or to immediately depart the shot area. Manual voice broadcasts will be made by BARRYMORE if the automatic tape broadcast fails. This procedure will enable non-critical aircraft to complete their mission.

ANNEX F

ANNEX F

TO

OPERATIONS ORDER NO. 4-54

SAR PLAN

(TG 7.4 OPRS ORDER 2-54 APPLIES)

ANNEX G

ANNEX G

TO

OPERATIONS ORDER NO. 4-54

CONTROL RB-36 FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX G

G

ANNEX H

ANNEX H

TO

OPERATIONS ORDER NO. 4-54

F-84 SAMPLER FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX H

H

ANNEX I .

ANNEX I

TO

OPERATIONS ORDER NO. 4-54

B-36 EFFECTS FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX I

I

ANNEX J

ANNEX J

TO

OPERATIONS ORDER NO. 4-54

B-47 EFFECTS FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX J

J

ANNEX K

ANNEX K

TO

OPERATIONS ORDER NO. 4-54

B-36 HI-ALTITUDE SAMPLER FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX K

K

ANNEX L

ANNEX L

TO

OPERATIONS ORDER NO. 4-54

C-54 PHOTO FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX L

L

ANNEX M

ANNEX M

TO

OPERATIONS ORDER NO. 4-54

WB-29 WEATHER AND RAD SAFE FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX M

M

ANNEX N

ANNEX N

TO

OPERATIONS ORDER NO. 4-54

DECONTAMINATION PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX N

N

ANNEX O

ANNEX O

TO

OPERATIONS ORDER NO. 4-54

B-50 IBDA FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX O

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ANNEX P

ANNEX P

TO

OPERATIONS ORDER NO. 4-54

C-47 RELAY FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX P

P

ANNEX Q

ANNEX Q

TO

OPERATIONS ORDER NO. 4-54

OBSERVER AIRCRAFT FLIGHT PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX Q

Q

ANNEX R

ANNEX R

TO

OPERATIONS ORDER NO. 4-54

SAMPLE RECOVERY PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX R

R

ANNEX S

ANNEX S

TO

OPERATIONS ORDER NO. 4-54

AOC PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX S

S

ANNEX T

ANNEX T
TO
OPERATIONS ORDER NO. 4-54
CIC PROCEDURES
(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX T

T

ANNEX U

ANNEX U

TO

OPERATIONS ORDER NO. 4-54

CONTROL DESTROYER PROCEDURES

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX U

U

ANNEX V

ANNEX V

TO

OPERATIONS ORDER NO. 4-54

AIRCRAFT ABORT CRITERIA

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX V

V

ANNEX W

ANNEX W

TO

OPERATIONS ORDER NO. 4-54

MULTI-ENGINE AIRCRAFT RAD SAFE REPORTING CODE

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX W

W

ANNEX X

ANNEX X

TO

OPERATIONS ORDER NO. 4-54

BRIEFINGS

(TG 7.4 OPRS ORDER 2-54 APPLIES)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX X

X

ANNEX Y

ANNEX Y
TO
OPERATIONS ORDER NO. 4-54
NAVY AIRCRAFT FLIGHT PROCEDURES
(NOT APPLICABLE TO KOON)

TASK GROUP 7.4
OPRS ORDER NO. 4-54
ANNEX Y

Y