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HEADQUARTERS TASK GROUP 7.4



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31/4/67/13

OPERATION ORDER NO. 7-54

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

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HEADQUARTERS
TASK GROUP 7.4, PROVISIONAL
APO 137, c/o Postmaster
San Francisco, California
19 April 1954, 1800 M

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OPERATIONS ORDER NO. 7.54

CHART REFERENCES:

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

TASK ORGANIZATION:

- a. Headquarters Task Group 7.4, Brigadier General Howell M. Estes, Jr.
Provisional
- 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:

The mission covered by this Operations Order is assigned the code name NECTAR. Its execution day is N-Day. Aircraft positioning in space at H-Hour and Flight Patterns are issued as Annex "D". This order is a specific directive to all elements of the Air Force Task Group to execute their assigned missions in support of NECTAR. This order supplements Task Group 7.4 Operations Order 1-53 and 5-54 which are 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 N-Day Event. (See Annex A, Check List, this Operations Order and Annex T, Command Ship CIC Procedures; Annex U, Control Destroyer Procedures, Operations Order 5-54.)
- (2) B-50 aircraft of the 97th Bomb Wing (Medium) will participate on N-Day. (See Annex O, B-50 IBDA Flight Procedures, TG 7.4 Operations Order 5-54 and Annex A, Check List; this Operations Order).

2. MISSION:

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

3. TASKS FOR SUBORDINATE UNITS:

- a. Test Aircraft Units:
 - (1) Execute assigned mission to include that specified in Annex A.
 - (2) Provide seven (7) F-84 aircraft for necessary sampling missions for N-Day. (See Annex H, Operations Order 5-54).

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- [REDACTED]
- (3) Provide three (3) B-36 aircraft for control, effects and sampling missions for N-Day. (See Annexes G, I and K, TG 7.4 Operations Order 5-54).
 - (4) Provide one (1) B-47 aircraft for an effects mission on N-Day. (See Annex J, TG 7.4 Operations Order 5-54).
 - (5) Integrate the operations of three (3) B-50 aircraft into N-Day. (See Annex O, TG 7.4 Operations Order 5-54).
 - (6) Assure adequate sample removal procedures for N-Day. (See Annex R, TG 7.4 Operations Order 5-54).
 - (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 air crews of the Test Aircraft Unit
 - (9) Prepare the marshaling plan for all aircraft which will depart from ENIWETOK to participate in N-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.
 - (12) Provide for aircraft decontamination.

b. Test Services Unit:

- (1) Execute assigned missions, including that specified in Annex A.
- (2) Provide three (3) C-54 photographic aircraft and crews for N-Day. (See Annex L, TG 7.4 Operations Order 5-54).
- (3) Provide adequate SA-16 and other required SAR support to the AOC and CIC for operational control throughout the N-Day Event. (See Annex F, TG 7.4 Operations Order 5-54).
- (4) Provide adequate WB-29 weather reconnaissance, cloud tracking and sampling services throughout the N-Day Event. (See Annex H, TG 7.4 Operations Order 5-54).
- (5) Assure adequate pre-mission weather forecasting as required for the N-Day Event.
- (6) Provide necessary weather briefings and weather reports to the CIC and AOC throughout the N-Day Event.
- (7) Assure adequate communications facilities throughout the N-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 air crews of the Test Services Unit.

c. Test Support Unit:

- (1) Assure that transient traffic and airlift operations do not interfere with or endanger test aircraft operations during N-Day Event.
- (2) Establish required measures to prevent movement of vehicles from interfering with or endangering air operations throughout N-Day.
- (3) Provide adequate crash removal and fire fighting protection for all air operations on N-Day.
- (4) 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 5-54).
- (5) Assure adequate refueling and field maintenance support for all aircraft during the N-Day Event.
- (6) Provide photographic coverage during N-Day operations for historical purposes.
- (7) In coordination with other Test Units, assure adequate transportation schedules from the flight line to the dining halls and billeting areas throughout the N-Day Event.

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 Annexes S, T and U, TG 7.4 Operations Order 5-54).
- (2) Coordinate with Test Support Unit to arrange required early dining schedules, in-flight lunches, transportation, etc., for the N-Day Event.
- (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 N-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 5-54).
- (7) Assure proper reporting of radiation encountered by multi-engine aircraft. (See Annex W, TG 7.4 Operations Order 5-54).
- (8) Conduct briefings as required. (See Annex X, TG 7.4 Operations Order 5-54).
- (9) Immediately after aircraft land, maintenance personnel will clear all discrepancies as soon as possible so as to insure the aircraft is ready for another mission if so directed.

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4. LOGISTICAL MATTERS:

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

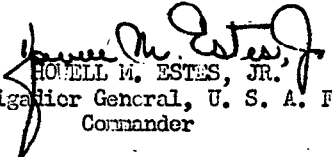
5. COMMAND AND SIGNAL MATTERS:

a. Communications: (See Annex E, TG 7.4 Operations Order 5-54).

b. Time: Zone "M" (Local) Time.

c. Command Posts:

- | | |
|------------------------|--------------------------------|
| (1) Task Group 7.4 | AEC Control Room (PARRY) |
| a. AOC | Building #90, Eniwetok Island |
| b. CIC | USS ESTES (AGC-12) |
| (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:

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ANNEXES

- A. Schedule of Events
- 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. (N/A This Oprs Order)
- 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
- Z. Pre-Shot Blast Precautions

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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, 76th Air Rescue Sq, 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
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1	32	Comdr, 15th Air Force, March AFB, Calif

JOINT TASK FORCE SEVEN AGENCIES

5	33 - 37	Comdr, JTF SEVEN, APO 187, c/o PM, San Francisco, Calif
5	38 - 42	Comdr, TG 7.1, APO 187, c/o PM, San Francisco, Calif
2	43 - 44	Comdr, TG 7.2, APO 187, c/o PM, San Francisco, Calif
2	45 - 46	Comdr, TG 7.3, APO 187, c/o PM, San Francisco, Calif
4	47 - 50	Comdr, TG 7.5, APO 187, c/o PM, San Francisco, Calif

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1	52	CG, AFSWP, Sandia Base, New Mexico

ARMY AGENCIES

1	53	C/S U.S. Army, Washington 25, D.C.
1	54	CG, USARPAC, APO 958, c/o PM, San Francisco, Calif

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TASK GROUP 7.4, PROVISIONAL, UNITS

Comdr, Test Aircraft Unit
Comdr, Test Services Unit
Comdr, Test Support Unit

HEADQUARTERS, TASK GROUP 7.4, PROVISIONAL, UNITS

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Commander, TG 7.4
Deputy Commander
Chief of Staff
Director of Operations
Director of Personnel
Director of Materiel
Comptroller
Personnel Security Officer
Historian
Adjutant, Hq Task Group 7.4 (REAR), Kirtland AFB, NM

Annex A

ANNEX A

TO

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TASK GROUP 7.4 CHECK LIST

TASK GROUP 7.4
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TASK GROUP 7.4 CHECK LIST

<u>ITEM</u>	<u>DAY</u>	<u>HOOR</u>	<u>EVENT</u>
1	N-4	0700	Three (3) B-29 Weather Reconnaissance missions per day begin.
2	N-4	0900	Positioning meeting at Hq Task Group 7.1 to firm positions of all aircraft for MOCER event.
3	N-4	1600	Publish Task Group 7.4 Operations Order 7-54.
4	N-4	1900	CT3 7.4 reports state of readiness of TG 7.4 to CJTF SEVEN.
5	N-3	0800	Project participants arrive ENIWETOK.
6	N-3	1800	CIC scope controller assignment charts prepared.
7	N-2	0700	JTF SEVEN official observers arrive at ENIWETOK.
8	N-2	0800	CJTF SEVEN notifies CINCPAC relative to closing and reopening of ENIWETOK airstrip.
9	N-2	0900	AOC confirms requirements for post mission, inter-atoll airlift operations. Notify CIC of all confirmed missions.
10	N-2	1000	Mission flimsies issued to all aircrews by Test Aircraft Unit.
11	N-2	1200	Two forecasters from Weather Central board USS ESTES.
12	N-2	1300	Required radiological instruments issued by Test Aircraft Unit to B-36 and B-29 Radiological Directors.
13	N-2	1300	CIC checks Time Hack communications.
14	N-2	1300	Test Aircraft Unit designates mission tower officer.
15	N-2	1600	Three (3) sample return aircraft (FLY-AWAY 1, 2, and 3) arrive at ENIWETOK.
16	N-2	1600	Three (3) B-50 IBDA aircraft arrive at ENIWETOK from GUAM. Radio and IFF checked in these acft.
17	N-1	0700	AOC insures that tower personnel are rebriefed on N-Day mission.
18	N-1		Test Support Unit insures that crash removal crews are briefed and prepared for N-Day assignments.
19	N-1		Test Support Unit insures that final arrangements are made for messing and transportation during the mission.
20	N-1	0730	Aircraft Status Report submitted to CIC by AOC.
21	N-1		AOC submits full "Midnight Report" by 0800.

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<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENT</u>
22	N-1	0800	General and specialized briefings begin.
23	N-1		CIC reports state of readiness of Task Group 7.4 to JTF SEVEN.
24	N-1	0900	Amphibious aircraft departs on rawindsonde and homer mission to RONGERIK.
25	N-1		JTF SEVEN personnel board USS ESTES.
26	N-1	1100	CJTF SEVEN Commander's conference.
27	N-1	1230	"Execute" order from CIC to AOC.
28	N-1	1300	Marshaling of mission aircraft begins. Final position of DOLL HOUSE determined by Task Group 7.3 and Task Group 7.4.
29	N-1	1400	VIP aircrew specialized briefing.
30	N-1	1500	Deputy Commander, Task Group 7.4 boards USS ESTES.
31	N-1	1600	Test Aircraft Unit forwards any changes in operational plan to the AOC for dissemination to the CIC and other control agencies.
32	N-1	1600	CTG'S and Hq Commandant, JTF SEVEN report results of initial muster to CTG 7.5 (Mr. Palmer) for personnel on ENIWETOK ATOLL (less ENIWETOK ISLAND) and to CTG 7.2 (Lt Col Troy) for personnel on ENIWETOK ISLAND).
33	N-1		Director of Materiel inspects fire fighting and crash removal equipment.
34	N-1		Senior Controller makes final changes in Col Kesling's check list, if applicable.
35	N-1		One B-50 HARTLINE aircraft modified to include capability of creter photography.
36	N-1	1630	CIC Controller's briefing for Deputy Commander, Task Group 7.4. CIC designates officer to stand-by on Dr. Ogle's phone.
37	N-1	1700	Test Aircraft Unit submits N-Day aircraft clearances to Base Operations.
38	N-1		PLANK-SIATLER Report to Commander, Task Group 7.4.
39	N-1	1720	Aircraft marshaling complete.
40	N-1	1800	AOC communications and equipment checked.
41	N-1		Final muster report submitted to JOC.
42	N-1	1830	Chief of Staff, Task Group 7.4 in place at AOC and all commanders immediately available.

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<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENT</u>
43	N-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
44	N-1	1845	CIC duty schedules firmed to include: a. Reporting time b. CIC crew reliefs set up c. Meal schedules arranged.
45	N-1	1900	CTG 7.4 reports results of final muster to CTG 7.5 for personnel on ENIWETOK ATOLL (less ENIWETOK ISLAND) and to CTG 7.2 (Lt Col Troy) for personnel on ENIWETOK ISLAND.
46	N-1	2220	JTF SEVEN passes directive to Task Group 7.4 concerning flight #1 (WILSON 2) WB-29 cloud tracker.
47	N-1	2300 H-7:30	Chief of Staff and Staff, including weather fore-caster meet to finalize "Midnight Report."
48	N-1	2315 H-7:15	DOLE HOUSE on station, begins listening watch on J-407 and J-408.
49	N-1	2330 H-7:00	"Midnight Report" to CTG 7.4.
50	N	*0045 H-5:45	AOC fully manned.
50A	N	0100 H-5:30	Time check AOC to tower and Unit Operations.
51	N	0100 H-5:30	Wake up CIC Enlisted Crew. Receive final CIC Elect-ronic Status Report.
52	N	0100 H-5:30	SAR alert crew and crash boat personnel in position at ENIWETOK.
53	N	*0125 H-5:05	CIC enlisted crew reports for duty.
54	N	0130 H-5:00	CIC posts weather and sea conditions.
55	N	*0140 H-4:50	First Aircraft position #1.
56	N	*0140 H-4:50	CIC Scope Controller #5 reports for duty.
57	N	*0140 H-4:50	Control Destroyer CIC fully manned.
58	N	0150 H-4:40	CIC Scope Controller #4 reports for duty.
59	N	*0200 H-4:30	CIC Scope Controller #3 reports for duty.
60	N	0210 H-4:20	CIC Scope Controller #7 reports for duty.
61	N	0215 H-4:15	CIC scope controller #2 reports for duty.
62	N	0230 H-4:00	CIC posts weather and sea conditions.
63	N	0235 H-3:55	CIC Scope Controller #1 reports for duty

*Items so marked will maintain same H-Hour factor. In the event of H-Hour time change, adjust clock time.

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<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENT</u>
64	N	*0300 H-3:30	CIC checks time broadcast with flag plot.
65	N	*0328 H-3:02	Time hack (<u>Blink</u> light 3 seconds - all aircraft for H-3 hours. CIC checks)
66	N	*0330 H-3:00	Time Hack.
67	N	*0330 H-3:00	CIC checks time broadcast with flag plot.
68	N	*0330 H-3:00	"Execute" order received by CIC from JOC; forward to AOC.
69	N	0330 H-3:00	CIC posts weather and sea conditions.
70			
71	N	0335 H-2:55	CIC scope controller #6 reports for duty.
72	N	*0425 H-2:05	Last VIKING aircraft departs FRED, CIC reports to JOC.
73	N	*0428 H-2:02	Time Hack (<u>Blink</u> light 3 seconds - all aircraft for H-2 hours. CIC checks)
74	N	*0430 H-2:00	H-2:00 Time Hack.
75	N	0430 H-2:00	CIC posts weather and sea conditions.
76	N	*0440 H-1:50	CIC checks CASSIDY Homer (450 kcs).
77	N	*0458 H-1:32	Time Hack (<u>Blink</u> light 3 seconds - all aircraft for H-1:30. CIC checks).
78	N	*0500 H-1:30	H-1:30 Time Hack.
79	N	*0528 H-1:02	CIC Time Hack (<u>Blink</u> light 3 seconds - all aircraft for H-1:00 time hack. CIC checks).
80	N	*0530 H-1:00	H-1:00 Time Hack.
81	N	0530 H-1:00	CIC post weather and sea conditions
82	N	*0540 H-0:50	Actual winds aloft checked with airborne aircraft. CIC checks.
83	N	*0543 H-0:47	CIC Time Hack (<u>Solid</u> light 3 seconds - HARDTIME and effects aircraft for H-45 minutes.)
84	N	*0545 H-0:45	H-0:45 Time Hack.
85	N	0550 H-0:40	Wake up relief CIC Enlisted crews, CIC receives JOC report.
85A	N	*0550 H-0:40	DOLE HOUSE reports estimated position for H Hour to CIC.
86	N	*0558 H-0:32	CIC Time Hack (<u>Blink</u> light 3 seconds all aircraft for H-30 minutes).
87	N	*0600 H-0:30	H-0:30 Time Hack.
88	N	*0605 H-0:25	Controller brief pilots on Time Hack.

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<u>ITEM</u>	<u>DAY</u>	<u>HOURL</u>	<u>EVENT</u>
89	N	*0605 H-0:25	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.)
90	N	*0610 H-0:20	Radio transmissions held to a minimum.
91	N	*0610 H-0:20	CIC officer stands by in JOC on direct line to Dr. Ogle to pass any message from Dr. Ogle to Col Kesling.
92	N	*0613 H-0:17	CIC Time Hack (<u>Blink</u> light 3 seconds all aircraft for H-15 minutes).
93	N	*0615 H-0:15	H-0:15 Time Hack
94	N	*0615 H-0:15	Decision is made as to where ELAINE #2 will land.
95	N	*0618 H-0:12	Time Hack (<u>Blink</u> light 3 seconds all aircraft for H-10 minutes).
96	N	*0620 H-0:10	H-0:10 Time Hack.
97	N	*0620 H-0:10	First F-84 sampler flight takes-off.
98	N	*0625 H-0:05	All CIC controller report positions of aircraft.
99	N	*0625 H-0:05	Senior Controller makes final positioning report to Deputy Commander, TG 7.4.
100	N	*0625 H-0:05	Deputy CTG 7.4 reports tht all aircraft are properly positioned to CTG 7.4 in JOC at ELMER.
101	N	*0626 H-0:04	JOC notified by CIC all aircraft in position.
102	N	*0626 H-0:04	CIC Time Hack (<u>Blink</u> light 6 seconds for all aircraft. All aircraft remain on VHF Channel "B" until H-Hour) for H-3 minutes.
103	N	*0630 H-0:00	H-Hour.
104	N	*0630 H-0:00	Controllers record H-Hour positions of aircraft.
105	N	0630 H-0:15	CIC posts weather and sea conditions.
106	N	*0635 H-0:05	USS ESTES begins movement to safe position.
107	N	*0645 H-0:15	CIC checks FRED and CASSIDY homers.
108	N	*0645 H-0:15	AOC checks towing of sample return aircraft to SW parking ramp.
109	N	0645 H-0:15	Relieve CIC and Inlisted crew.
110	N	0700 H-0:30	CIC reports CASSIDY positions to AOC.
111	N	*0730 H-1:00	CIC checks with AOC to insure completeness of sample removal plans for aircraft forced to land at KWAJALEIN.
112	N	*0730 H-1:00	Project Participants' aircraft depart operational area for destination.

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TASK GROUP 7.4
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<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENT</u>
113	N	0730 H/1:00	CIC reports CASSIDY position to AOC.
114	N	0730 H/1:00	CIC posts weather and sea conditions.
115	N	*0735 H/1:05	WB-29 WILSON #2 cloud tracker departs ENIWETOK.
116	N	*0800 H/1:30	Personnel in position on ENIWETOK For processing B-50 aircraft for departure after completion of mission. AOC checks.
117	N	0800 H/1:30	CIC reports CASSIDY position to AOC.
118	N	*0830 H/2:00	Filter sample plus one monitor transported from FRED to ELMER via L-13 (Time of flight dependent upon time WB-29 lands).
119	N	0830 H/2:00	CIC post weather and sea conditions.
120	N	0830 H/2:00	CIC reports CASSIDY position to AOC.
121	N	*0845 H/2:15	Gas sample bags and monitor transported from FRED to ELMER via H-19 Helicopter.
122	N	*0845 H/2:15	Filter sample plus one monitor transported from FRED to ELMER by L-13.
123	N	0900 H/2:30	Director of Materiel inspects HARTIME aircraft for damage.
124	N	0900 H/2:30	CIC reports CASSIDY position to AOC.
125	N	*0930 H/3:00	Initiate B. U. Action.
126	N	*0930 H/3:00	Helicopter dispatched to JANET, IRENE, GENE and ALICE to accomplish Rad/Safe Survey and early recovery.
127	N	0930 H/3:00	CIC reports CASSIDY position to AOC.
128	N	0930 H/3:00	CIC posts weather and sea conditions.
129	N	1000 H/3:30	CIC reports CASSIDY position to AOC.
130	N	*1030 H/4:00	CIC receives JTF SEVEN directive and passes it to AOC. Reference WILSON #3, WB-29 cloud tracker.
131	N	*1030 H/4:00	Two (2) B-50 HARTIME aircraft scheduled to depart ENIWETOK for GUAM. Third HARTIME aircraft will depart for GUAM after crater photo mission is accomplished.
132	N	1030 H/4:00	CIC posts weather and sea conditions.
133	N	1030 H/4:00	CIC reports CASSIDY position to AOC.
134	N	1100 H/4:30	CIC reports CASSIDY position to AOC.
135	N	*1130 H/5:00	Relieve CIC enlisted crew.

*Items so marked will maintain same H-Hour factor.
In the event of H-Hour time change, adjust clock time.

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX A

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A-6

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DOD DIR 5200.10

<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENT</u>
136	N	*1130 H/5:00	CIC checks with JOC Red/Safe for recommendation concerning crater photography.
137	N	1130 H/5:00	CIC reports CASSIDY position to AOC.
138	N	1200 H/5:30	CIC reports CASSIDY position to AOC.
139	N	*1230 H/6:00	WB-29 cloud tracker begins 12 hour post-shot Red/Safe mission.
140	N	1230 H/6:00	CIC posts weather and sea conditions.
141	N	1230 H/6:00	CIC reports CASSIDY position to AOC.
142	N	1300 H/6:30	CIC reports CASSIDY position to AOC.
143	N	1330 H/7:00	CIC posts weather and sea conditions.
144	N	1330 H/7:00	CIC reports CASSIDY position to AOC.
145	N	*1350 H/7:20	FLY-AWAY 1 and 2 departs FRED for ZI with samples aboard.
146	N	1400 H/7:30	CIC reports CASSIDY position to AOC.
147	N	1430 H/8:00	CIC posts weather and sea conditions.
148	N	1430 H/8:00	CIC reports CASSIDY position to AOC.
149	N	1430 H/8:00	Deputy Commander, TG 7.4 and Senior Controller return to ENIWETOK.
150	N	1435 H/8:05	Bottle gas samples transported from FRED to ELMER via L-13 (or possible H-19). H-19 will be required if a bag sample is involved.
151	N	*1445 H/8:15	One monitor plus 100 lbs of liquid samples (2 cu ft) transported from FRED to ELMER via L-13.
152	N	1500 H/8:30	CIC reports CASSIDY position to AOC.
153	N	1530 H/9:00	CIC posts weather and sea conditions.
154	N	1530 H/9:00	CIC reports CASSIDY position to AOC.
155	N	1700	ENIWETOK open to normal traffic.
156	N	*2200 H/15:30	CIC advised of tracks for third WB-29 (WILSON 4) cloud tracking mission. Information passed to AOC through CIC, or from ELMER by telephone.
157	N +1	0730	Execute maintenance plan.
158	N +1	*0830 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.
159	N/1	1000	Transport gas samples plus courier and baggage from ELMER by H-19. These samples are destined for ZI via FLY-AWAY 3.

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX A

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*ITEMS so marked will maintain same H-Hour factor. In the event of H-Hour time change adjust clock time.

A-7

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<u>ITEM</u>	<u>DAY</u>	<u>HOUR</u>	<u>EVENTS</u>
160	N/1	1200	FLY-AWAY #3 departs FRED for ZI with samples aboard.
161	N/2	0800	Commander's Operational Briefing.
162	N/2	0800	Post-mission inspection to determine extent of any aircraft damage.
163	N/2	0800	Decontamination of aircraft begins in accordance with established priority schedule.
164	N/2	1330	Unit Commanders report the operational status of their aircraft to CTG 7.4.
165	N/2	1500	Post-mission critique. Analysis of forecast weather (continues until completed.)
166	N/2	1600	B-36 and scientific team meet to discuss ECTAR mission (continues until completed).

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX A

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DOD DIR 5200.10

A-8

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DOD DIR 5200.10

Annex B

ANNEX B

TO

OPERATIONS ORDER NO. 7-54

AIRCRAFT PARKING PLAN

(Limited distribution to be issued separately)

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX B

B

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DOD DIR 5200.10

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Annex C

ANNEX C

TO

OPERATIONS ORDER NO. 7-54

AIRCRAFT MISSION EXECUTION CHART

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DOD DIR 5200.10

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX C

C

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DOD DIR 5200.10

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Published 1100 hours, 22 April 1954

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OPERATIONS ORDER NO. 7-54

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Call Sign	Pre-position		Tow to Position	Runup Position	Start Engines	Position 1	Position 2	Position 3	Position 4	Position 5	Position 6
	N-1	N-2									
	Not earlier than	Not later than									
Wilson 1	NR	NR	0100	In Place	0110	0140	0155	0200	0925	0940	0955
Elaine 1	1300	1320	NR	In Place	0130	0200	0234	0400	0627	0646	0720
Pewter 3	1520	1540	NR	RW	0157	0210	0231	0243	0825	0837	0855
Pewter 1	1540	1600	NR	RW	0207	0220	0240	0334	0725	0819	0837
Pewter 2	1600	1620	NR	RW	0217	0230	0250	0306	0755	0813	0931
Hard Time 1	1440	1500	NR	RW	0225	0245	0316	0506	0630	0644	0705
Hard Time 2	1430	1440	NR	RW	0240	0300	0316	0504	0630	0644	0710
Hard Time 3	1400	1420	NR	In Place	0245	0305	0321	0502	0640	0654	0800
Elaine 2	NR	NR	0301	RW	0315	0330	0355	0415	0655	0710	0753
LA Baby Food	NR	NR	NR	RW	0405	0425	0450	0500	0630	0705	0740
Cassidy	1320	1340	0200	In Place	0410	0440	0457	0540	1225	1340	1415
Viking 1	1640	1700	NR	RW							
Viking 2	1700	1720	NR	RW							
Viking 3	1720	1740	NR	RW							
Tiger Sniffer 1 & 2	NR	NR	0535	RW	0607	0615	0624	0710	0810	0825	0834
Stable 1	NR	NR	NR	RW	0710	0725	0750	0840	1110	1150	1215
Wilson 3	NR	NR	0655	In Place	0705	0735	0755	0825	1755	2015	2030
Wilson 2	NR	NR	0705	In Place	0715	0745	0810	0825	1325	1355	1410
Tiger Red 1	NR	NR	0655	RW	0742	0750	0759	0814	0905	0917	0926
Tiger Red 2	NR	NR	0725	RW	0750	0758	0807	0822	0915	0927	0936
Floyd 1	NR	NR	0720	In Place	0750	0820	0837	0955	1125	1212	1235
Tiger White 1	NR	NR	0750	RW	0820	0828	0837	0855	0955	1007	1016
Tiger White 2	NR	NR	0800	RW	0830	0838	0847	0905	1005	1017	1026
Tiger Blue 1	NR	NR	0830	RW	0901	0909	0920	0945	1100	1120	1129
Tiger Blue 3 & 4	NR	NR	0840	RW	0911	0919	0930	0955	1110	1135	1144

Stable 2 - STAND-BY

NR - Not Required

RW - Run-Way

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ANNEX "D"

ANNEX "D"
TO
OPERATIONS ORDER NO. 7-54
AIRCRAFT H-HOUR POSITIONS AND FLIGHT PATTERNS

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX D

D

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ANNEX "D"
TO
OPERATIONS ORDER NO. 7-54
AIRCRAFT H-HOUR POSITIONS AND FLIGHT PATTERNS

HEADQUARTERS
TASK GROUP 7.4, PROVISIONAL
APO 187, c/o Postmaster
San Francisco, California
19 April 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 IEDA Flight Patterns."
 - d. Appendix 6, "Observer Aircraft Flight Patterns."
 - e. Appendix 8, "14 BABYFOOD Flight Pattern."
4. All other aircraft airborne will execute orbits at H-Hour Stations.

OFFICIAL:

Paul H. Fackler

PAUL H. FACKLER
Lt Colonel, USAF
Director of Operations

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

8 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 IEDA Aircraft Pattern
6. Observer Aircraft Pattern
7. Eniwetok Control Procedures
8. 14 BABYFOOD Flight Pattern

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX D

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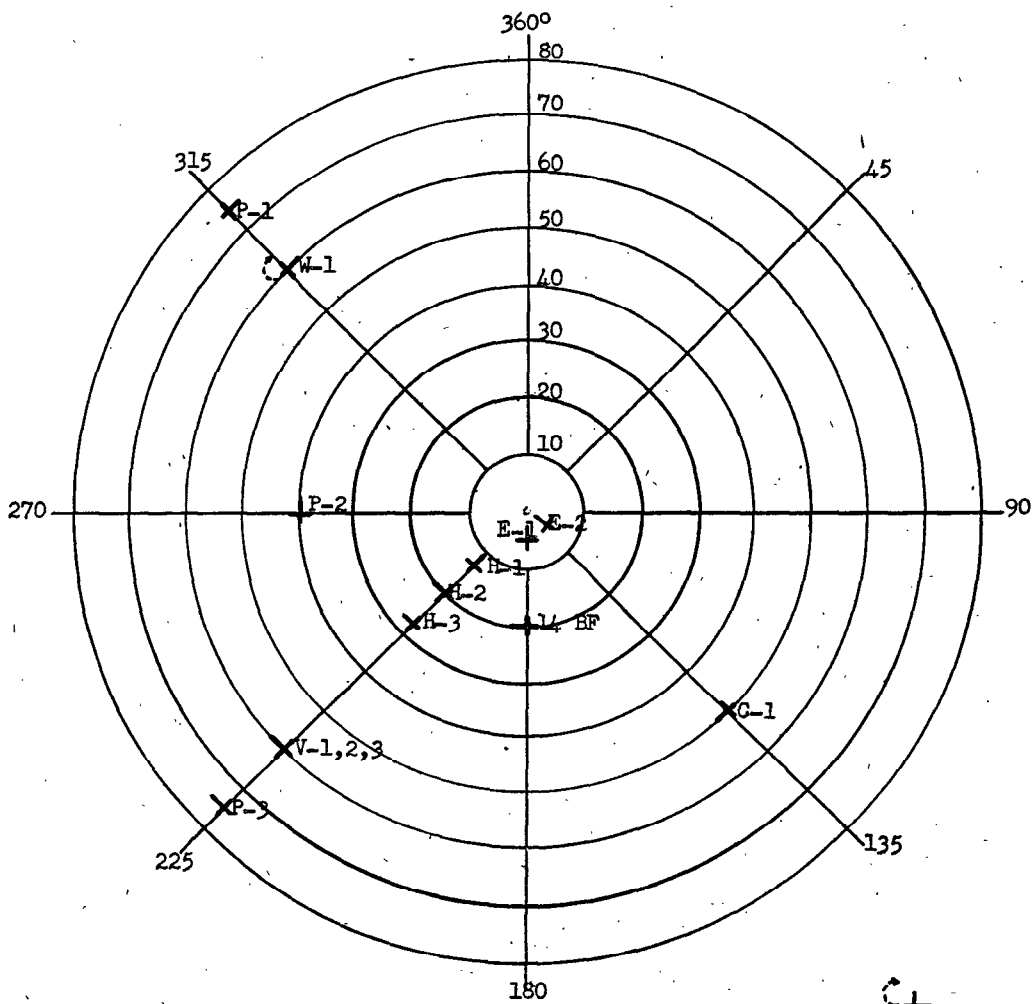
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APPENDIX 1
TO
ANNEX "D"
OPERATIONS ORDER 7-54
H-HOUR AIRCRAFT POSITIONS CHART



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TASK GROUP 7.4
OPRS ORDER 7-54
APNDX 1 ANNEX D

D-1-1

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APPENDIX 2
TO
ANNEX D
TO
OPERATIONS ORDER NO. 7-54

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AIRCRAFT	RANGE	AZIMUTH	ATT	TAS	ALT(Thousand)	ROUTE
ELAINE 1 B-36	37,200	180°	Tail	278K	37 Absolute	Corridor A
ELAINE 2 B-47	31,800	120°	Tail	430K	35 Absolute	Corridor A
CASSIDY 1 B-36 Control	50 NM	135°	L Side	250K	40 Absolute	Corridor A
HARDTIME 1 B-50	12 NM	225°	Tail	280K	32 Absolute	Corridor B
HARDTIME 2 B-50	20 NM	225°	L Side	280K	31 Absolute	Corridor B
HARDTIME 3 B-50	27 NM	225°	L Side	280K	30 Absolute	Corridor B
PEWTER 1 C-54	75 NM	315°	L Side	170K	14	Corridor A
PEWTER 2 C-54	40 NM	270°	L Side	170K	10.5	Corridor B
PEWTER 3 C-54	75 NM	225°	L Side	170K	12.5	Corridor B
WILSON 1 WB-29	60 NM	315°	Orbit	210K	20	Corridor A
VIKING 1	60 NM	225°	Side	---	9	Corridor B
VIKING 2	60 NM	225°	Side	---	10	Corridor B
VIKING 3	60 NM	225°	Side	---	11	Corridor B
14 B.BYFOOD P4Y - 2	20 NM	180°	L Side Turn out at H/40 secs		7.5	Corridor A

TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX D, APNDX 2

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D2-1

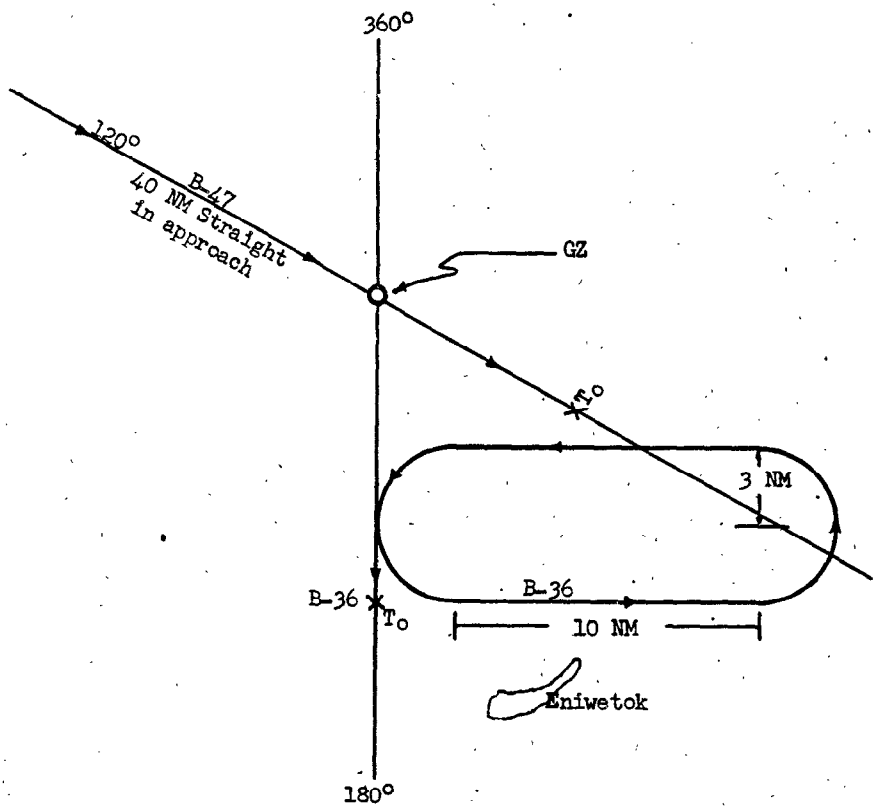
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APPENDIX 3
TO
ANNEX "D"
OPERATIONS ORDER 7-54
B-36 AND B-47 EFFECTS AIRCRAFT FLIGHT PLAN



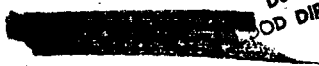
B-47
Altitude - 35,000 ft
Horizontal Range at T_0 - 31,800

B-36
Altitude - 37,000 ft
Horizontal Range at T_0 - 37,200

Task Group 7.4
OPRS ORDER 7-54
APPNDX 3 ANNEX D

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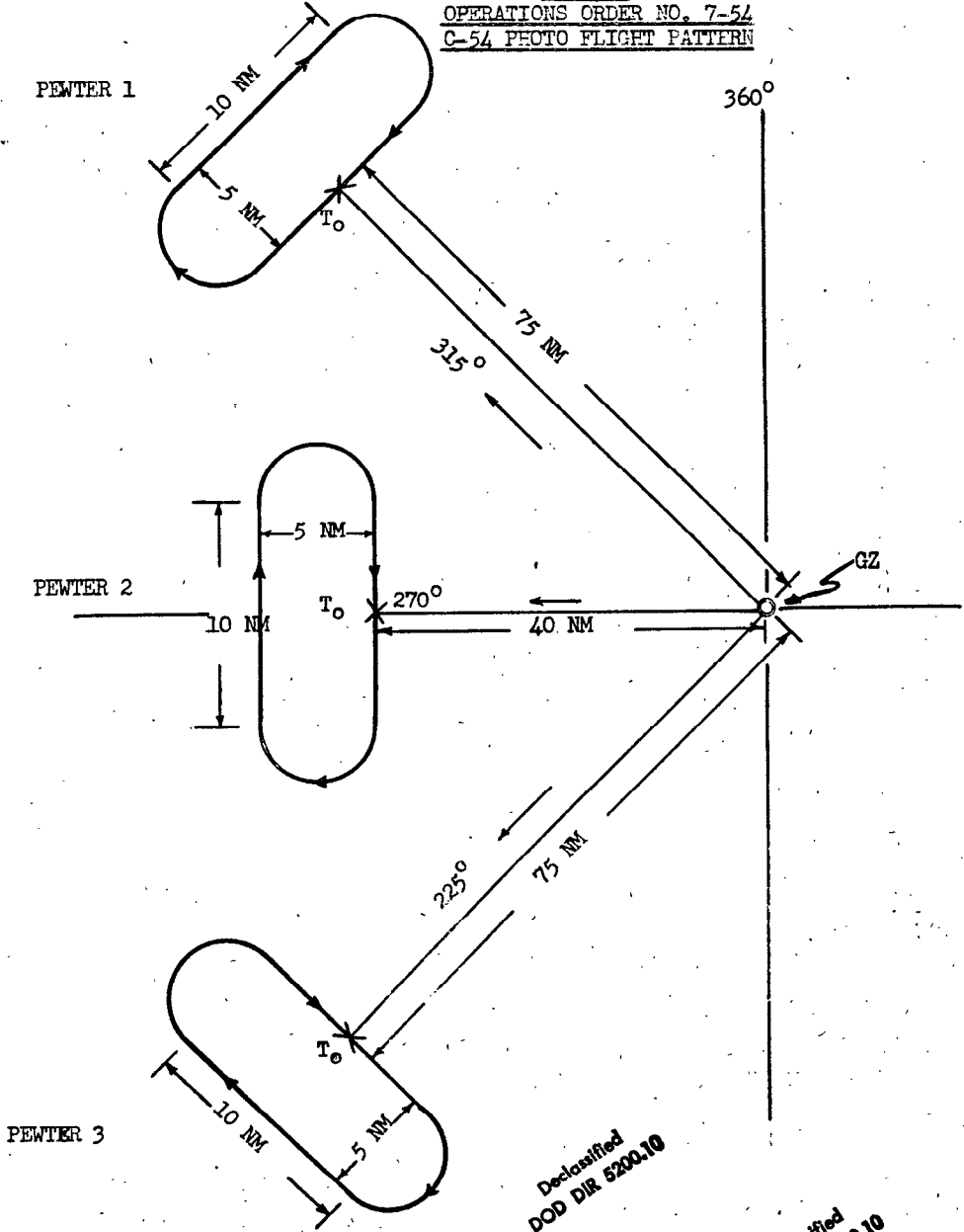
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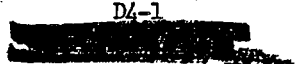
APPENDIX 4
TO
ANNEX D
OPERATIONS ORDER NO. 7-54
C-54 PHOTO FLIGHT PATTERN



TASK GROUP 7.4
OPRS ORDER NO. 7-54
ANNEX D, APNDX 4

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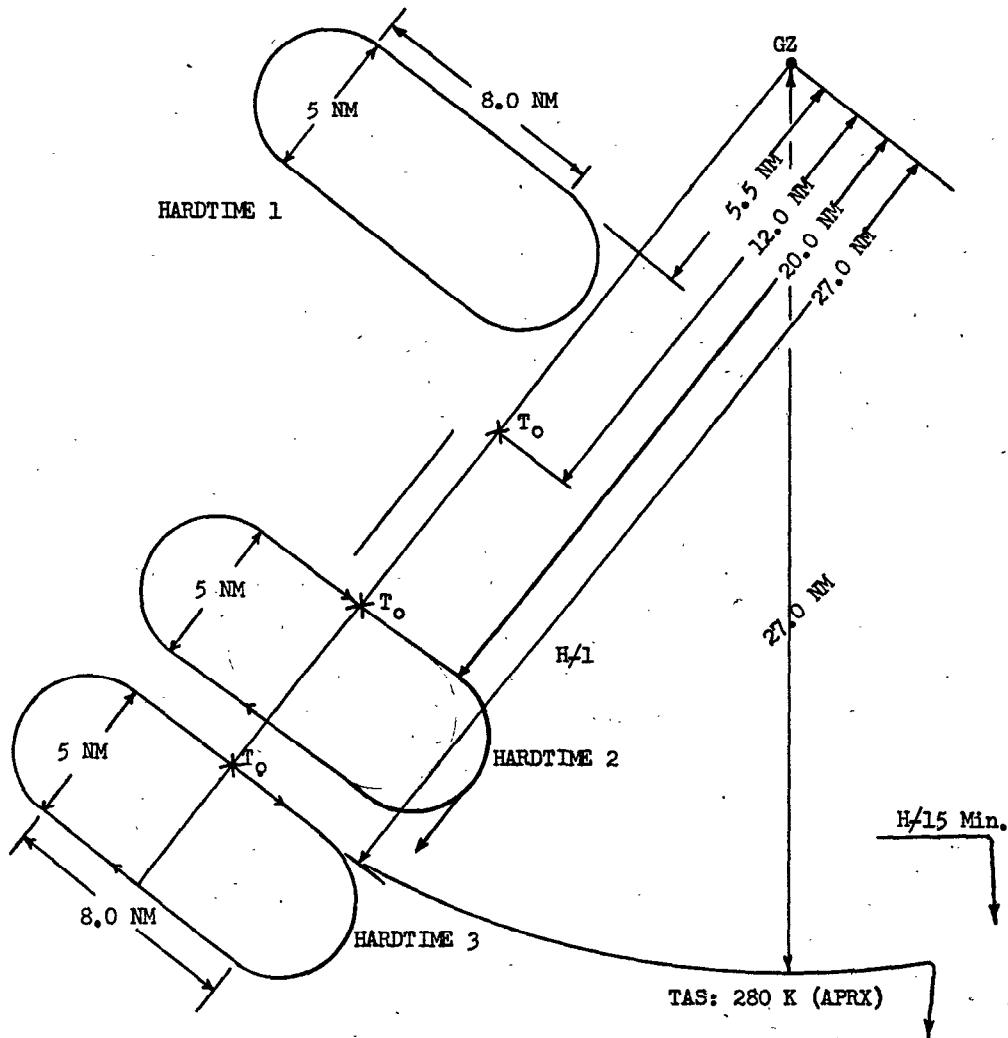


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APPENDIX 5
TO
ANNEX "D"
B-50 IBDA FLIGHT PATTERNS



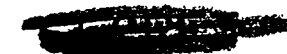
TASK GROUP 7.4
OPRS ORDER NO. 7-54
APNDX 5 ANNEX D

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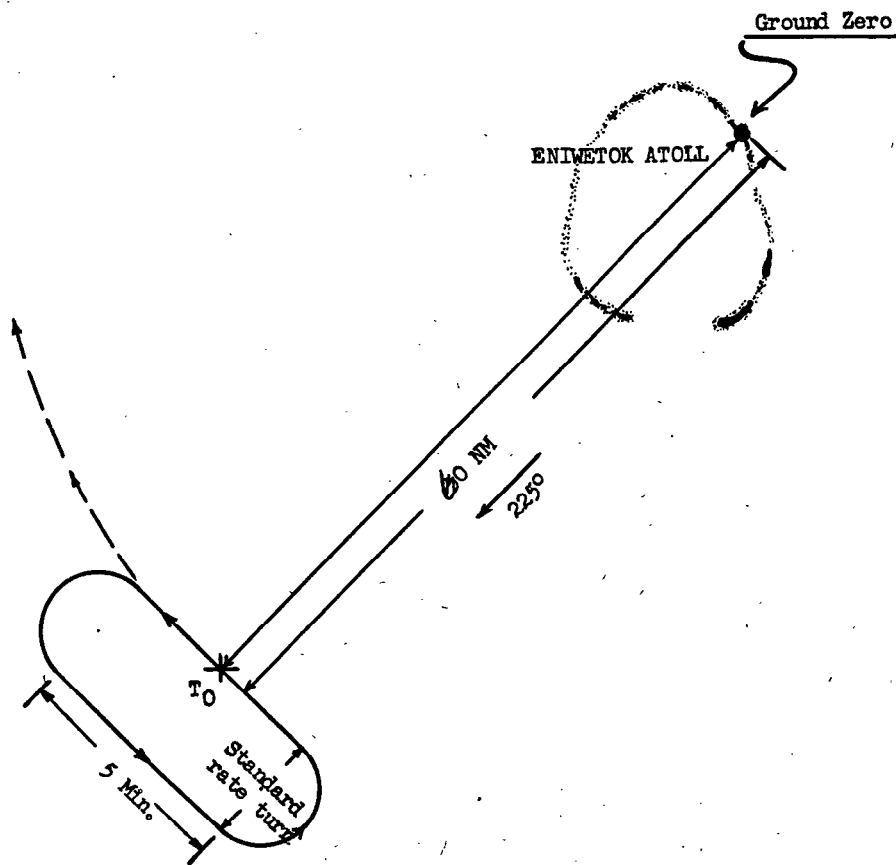
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APPENDIX 6
TO
ANNEX "D"
VIKING FLIGHT PATTERNS

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TASK GROUP 7.4
OPRS ORDER NO. 7-54
APNDX 6 ANNEX D

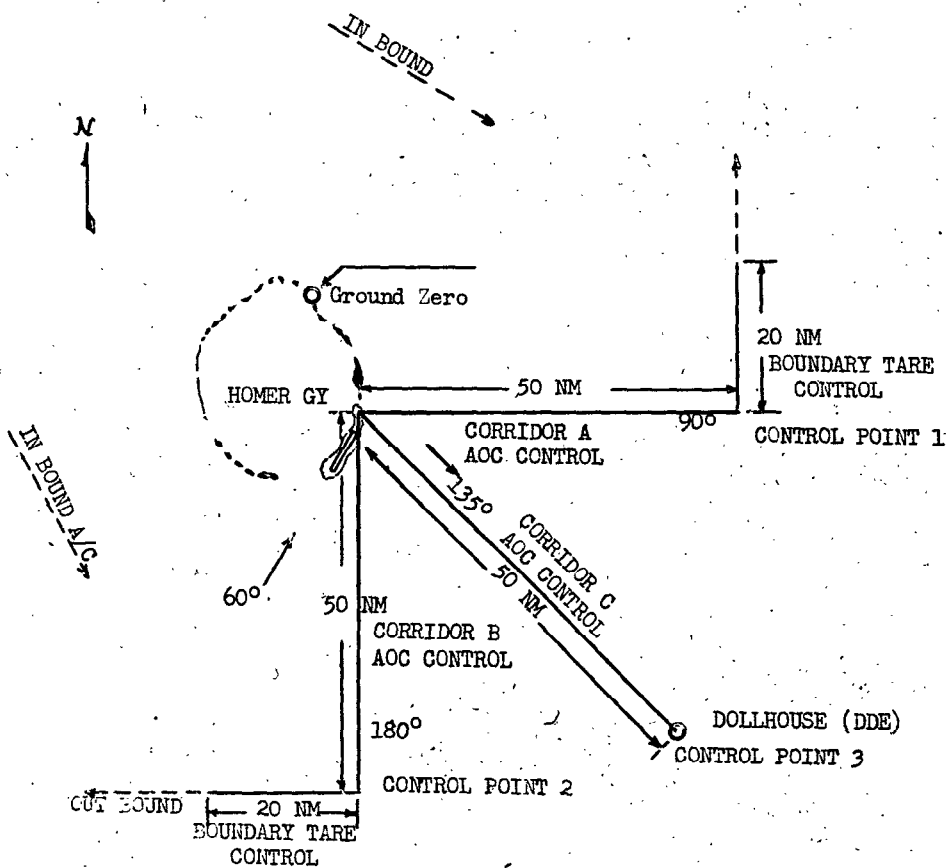


Standard lefthand race track
pattern. 5 minute legs. All
aircraft at different altitude.
All turns are standard rate.

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(See appendix 2, Annex D for individual aircraft corridor assignment).

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APPENDIX 7
TO
ANNEX "D"

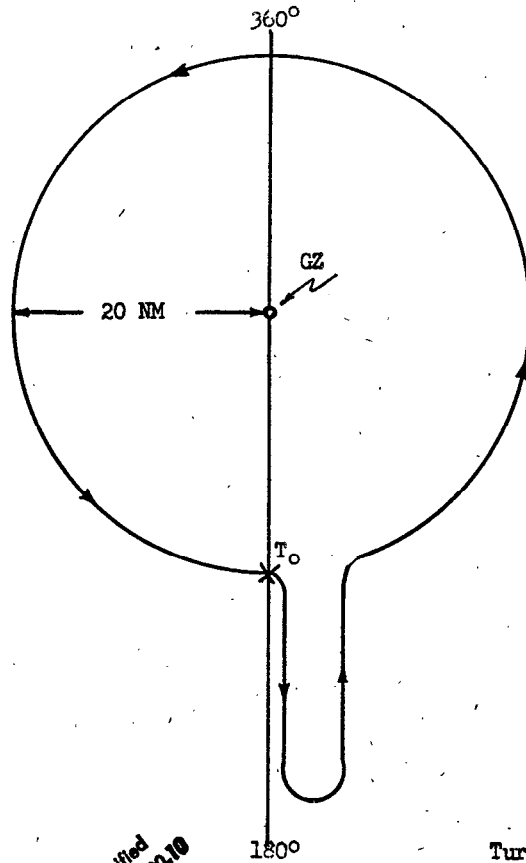
OPERATIONS ORDER NO. 3-54
PROCEDURES FOR ENIWEТОK

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DOD DIR 5200.10

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DOD DIR 5200.10

APPENDIX 8
TO
ANNEX "D"
OPERATIONS ORDER 7-54
14. BABYFOOD AIRCRAFT PATTERN



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DOD DIR 5200.10

Turn out at
H / 40 seconds

TASK GROUP 7.4
OPRS ORDER 7-54
APNDX 8, ANNEX D

D-8-1

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HEADQUARTERS
TASK GROUP 7.4, PROVISIONAL
APO 187, c/o Postmaster
San Francisco, California
19 April 1954, 1800H

GENERAL INFORMATION

ANNEXES "E" THROUGH "Z" INCLUSIVE OF TASK
GROUP 7.4 OPERATIONS ORDER NO. 5-54 APPLIES
TO THIS OPERATIONS ORDER

TASK GROUP 7.4
OPRS ORDER NO. 7.54