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HEADQUARTERS
TASK GROUP 7.1
Joint Task Force SEVEN
APO 187 (HOW), % Postmaster
San Francisco, California

Curry
File

JF-3814

13 February 1954

SUBJECT: Over-all Radioactive Sample Return

RG 410614

TO: Commander
Task Group 7.1

CS, D158
Records Center
6.3.1 Planes

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1. General Information: The overall responsibility of Sample Return is that of the Commander, Joint Task Force SEVEN. Headquarters, Joint Task Force SEVEN, Task Groups 7.1 and 7.4 will each have designated responsibilities and will each have an officer assigned to coordinate the return of samples to the ZI. These officers will be present at the Eniwetok airstrip for each aircraft loading and departure.

2. Concept of Operations.

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a. The necessary overseas and stateside aircraft to accomplish the lift outlined in inclosure 1 will be procured from MATS by CJTF-SEVEN.

b. Flight planning will be done by MATS and will be based upon the requirements of CTG 7.1.

c. Sample return flight departures from Eniwetok will be controlled by CJTF-SEVEN, based upon the needs of CTG 7.1 and other pertinent factors.

d. Usable passenger space aboard sample return aircraft will be allocated by CJTF-SEVEN consistent with radiological safety and the urgency of sample movement. The number of couriers, sample project officers, monitors and passengers will not exceed a total of eight (8) in the cabin of Flyaways one and two.

e. There will be four (4) scheduled flights after each detonation. They will depart, consistent with collection of samples and flying safety at the following times:

[REDACTED]

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BY AUTHORITY OF DOE/OG
Carl W. ... 10/12/83
REVIEWED BY *W. Belmont* DATE

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Two at H / 6 to 10 hours.

One at H / 24 to 36 hours.

One at H / 76 to 100 hours.

In general terms, the H / 6 to 10 hour departure aircraft are known as Flyaways one and two. The H / 24 to H / 36 hour departure aircraft and the H / 76 to H / 100 hour departure aircraft are known as Flyaways three and four. Flyaways one and two will be R-6D's (DC-6's) and require about twenty (20) hours to make the flight from Eniwetok to Albuquerque with one stop of about twenty minutes at Hickam AFB. Flyaways three and four may also be R-6D's. Each Flyaway aircraft has a different number. The first number, say 2 of 23, designates the number of the detonation; in this case UNION. The second number, say 3 of 23 designates that this is a Flyaway 3, leaving Eniwetok at H / 24 to 36 hours. As another example, Flyaway 64 will be the Flyaway 4 of the sixth detonation, [REDACTED]. If it is necessary to return samples at other than the times the Flyaway aircraft depart, they will be returned if the radiation level permits as far as Travis AFB by Priority 1 MATS with a monitor furnished by the project involved.

f. Flyaways one and two will have Kirtland AFB as their first destination for Los Alamos detonations. Alameda NAS will be the first destination for the UCRL detonations. The first destinations of Flyaways three and four will be determined by the priority of the samples aboard, but in all probability will be Alameda NAS.

g. After the aircraft arrive at their first destination, they or other suitable aircraft from MATS will be utilized to transport the remainder of the samples to airports near other scientific installations that have samples aboard.

3. JTF-SEVEN Responsibilities.

a. Headquarters JTF-SEVEN will send pre-departure messages to JTF-SEVEN LNO's at Hickam and Travis, Headquarters JTF-SEVEN Rear and Com Pac Div MATS giving the following information:

- (1) Estimated departure time of flight.
- (2) Passenger list.
- (3) Destination of each flight.

b. Designate and brief a sample project officer for each Flyaway flight. His duties will be:

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(1) To accompany each aircraft to its final destination. This officer will have the responsibility of turning over the samples to authorized representatives of the laboratories concerned at each stop on the scheduled itinerary. The sample project officer courier will remain with the aircraft at all times unless his duties require him to be elsewhere at stops enroute. At all times he will insure that adequate security and safety precautions are adhered to. Prior to departure the sample project officer will be given a survey instrument and a course of instructions by CTG 7.4. In addition to the responsibilities for delivery of samples, the sample project officer will also act as radiological safety monitor who will be responsible to turn in at the flight, film badges and radiation instruments.

(2) Brief each aircraft commander with regard to the nature of the cargo being carried, why it is necessary for its expeditious delivery and the radiological safety measures that should be practised by all personnel aboard. He will assist the aircraft commander in any way possible to facilitate the efficient and expeditious handling of the cargo and passengers.

(3) Check the manifest for the cargo and personnel aboard each aircraft prior to departure from Eniwetok and ascertain destination of each.

(4) Have a list of local contacts plus telephone numbers at each stop of his aircraft so that if necessary he will be able to contact appropriate representatives at various laboratories to assure prompt delivery and transportation of samples at each airport of landing.

(5) Request the aircraft commander to notify each airport sufficiently in advance for local representatives to be able to contact the airport and determine as near as possible the exact time of arrival.

(6) By long distance telephone call or TWX, whichever is appropriate, notify JTF SEVEN LNO Travis AFB or Headquarters JTF SEVEN Rear, whichever is closest, of his exact time of arrival and his estimated time of departure from each airport.

(7) Inform Headquarters, JTF SEVEN Rear and JTF SEVEN LNO Travis AFB of any emergency landings or unusual conditions which will require the assistance of JTF SEVEN in provision of replacement aircraft so as to insure expeditious delivery of samples.

[REDACTED]

(8) Submit final report on prepared form, in writing to Commander, JTF SEVEN, giving appropriate details in regard to delivery of samples to each destination.

(9) In the event alternate airports are used because of weather, contact JTF SEVEN Rear or LNO Travis giving details. He will further contact laboratories concerned and arrange for an expeditious turnover of samples to authorized representatives as possible.

c. Headquarters JTF SEVEN (Rear) and LNO JTF SEVEN Travis AFB and Hickam Air Force Base will have the following responsibilities.

(1) To safe-guard samples while in transit within area of responsibility in accordance with appropriate security directives.

(2) LNO Travis AFB will insure that appropriate base facilities and clearances have been arranged for by MATS at each of the west coast installations where Flyaway aircraft will land.

(3) LNO Travis AFB will further inform appropriate laboratories on the west coast of estimated times of arrival of each sample return aircraft in order that the respective laboratories may have transportation and personnel present when aircraft land.

(4) Headquarters JTF SEVEN Rear and LNO Travis AFB will monitor the flight of each Flyaway aircraft to its final destination within the United States and assist where necessary in assuring the aircraft proceeds to its final destination with minimum delay of time at each enroute stop. These agencies will further keep CJTF-SEVEN informed of the progress of all Flyaway flights and notify the laboratories concerned of ETA's of the Flyaways.

(5) LNO's will notify the following agencies of all Flyaway departure and arrivals from their stations:

- (a) CJTF SEVEN and Hq JTF SEVEN (Rear)
- (b) CINCPAC
- (c) Liaison Officer, Hickam AFB
- (d) Liaison Officer, Travis AFB
- (e) CTG 7.1 (Forward and Rear)

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(f) Mgr. SFOO

(g) All laboratories having samples aboard.

4. CTF 7.1 Responsibilities.

a. General: The Commander, TG 7.1 will be responsible for the recovery, packaging, classifying, marking, transporting samples to FRED or ELMER, placing the samples in storage in the compound at FRED if necessary, removing them from storage and placing them aboard the sample return aircraft in locations specified by the pilot and stating that the aircraft is ready for take-off as far as samples aboard are concerned. The Commander TG 7.1 is further responsible to notify certain agencies as shown below of prescribed information, to make arrangements that the plane is met at its destinations with all equipment and personnel required to transport the samples to the scientific laboratories of interest. The agencies and individuals shown below will assist the Commander TG 7.1 to perform his functions in the manner described.

b. The TG 7.1 Project Officers having radioactive samples will:

(1) Make the recovery of their samples.

(2) Package, classify as necessary, assisted by the classification officer and mark all their samples for shipment to FRED, ELMER or the ZI. Boxes required for packaging and all other materials must be on hand at TARE, NAN and/or FRED prior to each detonation. Boxes should be marked as shown in inclosure 2.

(3) Accompany their samples to the compound on FRED and have a representative present when the aircraft are loaded, for coordination and safety measures and to assist as necessary.

(4) Ascertain, along with the TG 7.1 Sample Control Officer, that project personnel are available to take custody of their samples and to meet the sample return aircraft with handling gear if required at airports of intended landing.

(5) Program directors and project officers must insure that personnel listed as those to call if no one meets the Flyaway aircraft at the sample destinations are authorized to receive collect telephone calls from the Sample Return Officers or other official personnel if this action becomes necessary or desirable from the standpoint of expeditious sample delivery.

[REDACTED]

(6) Notify the TG 7.1 Sample Return Officer of normal and any special requirements in the forward area or ZI.

(7) Designate project couriers and/or monitors if required to accompany their samples. The following agencies will assist the project officers in performing their functions:

TU-7
J-3
J-4
Sample Return Officer

The specific assistance available is described below.

c. The TG 7.1 Sample Return Officer in conjunction with J-3 will:

(1) At the discretion of CTG 7.1 release the aircraft to CTG 7.4 stating that the aircraft is ready for take-off as far as samples aboard are concerned.

(2) Notify Headquarters JTF SEVEN and J-3 TARE, not later than thirty-six (36) hours in advance of departure of each sample return aircraft of the following estimated information.

(a) Size, weight and cube of samples.

(b) Radiation condition expected.

(c) Destination for each container and project responsible therefor.

(3) Coordinate all recovery planning with the Task Force SEVEN and TG 7.4 sample return representatives to insure that adequate transportation facilities and personnel are available at the time required.

(4) Advise the Sample Return Officer, JTF SEVEN of any special requirements when needed and/or procedures to be used in moving scientific samples and cargo from the designated landing air fields to the scientific laboratory having primary interest.

(5) Arrange, thru CTG 7.4 to have the necessary C-47 or PBM sample return airlift from Bikini to Eniwetok.

(6) Coordinate with the TG 7.1 Sample Recovery Officer to see that proper arrangements are made at Bikini to expedite movement of samples from Bikini to Eniwetok.

(7) Brief all TG 7.1 monitors and/or couriers in accordance with existing directives.

[REDACTED]

d. J-4, TG 7.1 will:

(1) Take charge of the logistical support for CTG 7.1. This will include:

(a) Having officers at the Eniwetok and TARE airstrips to take charge of unloading the samples from the C-47 or other aircraft. He will supervise placing them in storage in the FRED compound, aboard sample return aircraft, or transport them to PARRY as required.

(b) Have this officer take charge of removing the samples from the compound or transporting them from PARRY and placing them aboard the sample return aircraft to the ZI.

(c) Make a complete listing of each separately boxed sample and obtain the following information:

1. Type of sample.
2. Number of containers for each project.
3. Radiation level of sample.
4. Project having ownership of sample.
5. Destination of sample.
6. Weight, size and cube of sample.
7. Monitors and/or couriers on aircraft.

(d) Arrange for equipment and personnel to be present at FRED and TARE at the required times in order to complete his mission.

(e) Make up boxes prior to shot time for packaging samples if required by TG 7.1 Project Officers.

(2) Upon departure of each sample return aircraft, and in conjunction with the TG 7.1 Sample Return Officer, send Operational Priority messages to Headquarters TG 7.1 Rear and to each continental scientific organization concerned (with information copies to JTF SEVEN, Forward and Rear, and LNO's) informing them of the aircraft number, itinerary of aircraft, laboratories having samples aboard, weight, number and cube of each installations samples, type of samples, names of couriers and/or monitors aboard and estimated time of arrival at the particular destinations at which samples are to be delivered and any special requirements for the samples at their destinations.

[REDACTED]

e. TU-7 Responsibilities.

(1) Assist project officers in so far as radiation safety is concerned in the recovery of samples and in the handling of samples at TARE, FRED and ELMER.

(2) Assist in radiation safety problems within the FRED compound and at ELMER and in the movement of samples to the sample return aircraft.

(3) Assist as requested in connection with packaging and storage of samples on aircraft.

(4) Approve and instruct as necessary TG 7.1 monitors accompanying samples.

f. J-1 Responsibilities. Issue orders and obtain atoll clearance for all TG 7.1 couriers, monitors and/or passengers that return on sample return aircraft.

5. CTG 7.3 Responsibilities. Assist in the recovery of samples at Bikini Atoll by providing aircraft and boats as necessary.

6. CTG 7.4

a. Insure that top priority be given to the earliest departure time possible of the sample return aircraft after it is loaded.

b. Designate a rad-safe monitor to be present while each aircraft is being loaded to insure that radiological safety procedures are adhered to, record readings after cargo is stored and mark a rad-safe isolation line in the aircraft. Have available equipment and personnel to move the samples to and from the FRED compound and the sample return aircraft, both C-47 and stateside return aircraft.

c. Insure along with LNO's that the aircraft commanders understand that they are responsible to:

(1) Place the scientific cargo, tie it down, etc.

(2) Insure the most expeditious return of the scientific cargo to its destination, consistent with flying safety.

(3) See that radio security is observed on the return flights.

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7. Safety Precautions:

a. A radiological safety monitor will be provided for each flight. For flights one and two, after each shot, representatives of LASL and UCRL, who accompany each of those flights, will act as radiological safety monitors. For the third and fourth flights, after each shot, the sample project officer appointed by CJTF SEVEN will act as rad-safe monitor as outlined in 3b above.

b. The radiological samples will be stored in the aircraft so as to minimize the radiation exposure to all passengers. The radiological monitor of TG 7.4 who inspects the aircraft after loading at Eniwetok will make a line on the floor of the aircraft indicating the level of radiation beyond which passengers will not ride. He will instruct the rad-safe monitor for each flight that all personnel are to remain outside this line as much as possible.

c. Appropriate instructions will be issued to passengers to insure that all aboard are aware of the nature of the samples and that under no conditions will anyone sit or recline on top of, or in the area immediately adjacent to the samples themselves.

8. Emergency Procedures.

a. In the event of in-flight emergency, the aircraft commander is authorized to make emergency disposal of the radiological samples. If at all possible, concurrence will be obtained from the sample project officer or scientific project personnel before disposal of samples is made.

b. In the event emergency disposal is made, CJTF-SEVEN will be notified by the aircraft commander at the earliest opportunity, giving detailed explanations.

9. Cargo and Passengers.

a. No cargo, other than radiological samples, will be permitted on sample return flights.

b. Requests for passengers to return to ZI by sample return flight will be submitted by all Task Groups to CJTF-SEVEN not later than 12 hours ahead of scheduled departure time. The passenger lists must have the concurrence of the commander of the task group concerned. In the event that there are more requests than there is space available, the Commander, Joint Task Force SEVEN will decide which individuals will return aboard each aircraft. All arrangements for passengers and cargo will be made by CJTF-SEVEN.



c. All passengers will be advised that samples have first priority and passengers are being returned for convenience only. Under no conditions will an aircraft departure from a scheduled stop be delayed because of a passenger not being present or not cleared by customs. All passengers will ride the aircraft to their destinations specified on manifest in their request. Only under emergency conditions will they be permitted to leave the aircraft at stop-over points prior to arrival at their final destination. JTF SEVEN LNO at Hickam is instructed to cancel from the flight any passenger whose personal arrangements or desires might cause delay in the departure of the flight.

d. Customs clearances for all personnel aboard will be arranged for by this headquarters.

e. Hot meals to be served aboard Flyaways one and two will be arranged by CJTF SEVEN.

10. REPORTS: Any information which affects the schedules as indicated in inclosure 1 should be communicated to the TG 7.1 Sample Return Officer by all concerned without delay.

- 2 Incls:
 1. Flyaway schedules
 2. Marking boxes

P.L. Hooper
 P.L. HOOPER
 J-3

DISTRIBUTION:

- 1 - Ogle
- 2 - CJTF SEVEN (Cowan)
- 3 - CTG 7.3 (Schmidling)
- 4-7 - CTG 7.4 (Crosby)
- 8-10 - CTU-1 (Aanodt)
- 11-17 - CTU-13 (Ravey)
- 18-21 - L-Div (Smith)
- 22 - Graves
- 23 - Curry
- 24 - Spence
- 25 - Plank
- 26 - Biggers
- 27 - H. Allen
- 28 - Miller
- 29-32 - Van Gemert
- 33 - Kelly
- 34 - Kerwin
- 35-40 - J-3
- 41 - J-Div Rear
- 42 - JF File
- 43 - JF Seq
- 44 - M&R LASL

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APPENDIX I
FLIGHT SCHEDULE (Bravo Day, 1 March 54)

Flight	Type Aircraft	Departure Time	Project Number	Project Samples Aboard	FT/Flt	Lbs/Flt	Radiation Level	First Destination & Closest Airport	Subsequent Destination & Closest Airport	Passenger Monitor	Remarks
Flyaway 11	R6D	H / 6 hr to H / 10 hr 1 March 54	Min 6 Max 12	11.2 7.4 9.1	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2) O'Hare AFB (11.2) 9.1 film off-load Hickam.	(11.2)	2 for Proj 11.2 Max 5 add'l Pax plus Project Officer.	Flyaway 11 & 12 should arrive Kirtland within minutes of each other. Proj Officer to accompany aircraft to final destination. Papers will be split at Kirtland for subsequent delivery to O'Hare.
Flyaway 12	R6D	H / 6 to H / 10 hr 1 March 54	Min 6 Max 12	11.2 21.2 7.4 2.6a(3)	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2)	Alameda NAS (2.6a) (21.2) (7.4)	2 for Proj 11.2 Max 5 add'l Pax plus Proj Officer.	Same as Flyaway 11 except subsequent delivery of papers to Alameda for Proj 7.4 & 21.2. Sample Proj Officer to accompany aircraft to final destination. UCHL will have monitor board at Kirtland for Alameda.
Flyaway 13	R6D	H / 24 to H / 36 hr 2 March 54	Max 12	2.3 2.6a 7.4 14.1(3) 11.2(3)	Max 180	Max 6000	Order of 200R at 1 Ft	Alameda NAS (2.6a) (21.4) Kirtland AFB (11.2) C'Hare Inc'l (7.4) Holling AFB (2.3) Logan AFB (7.4)	McClellan AFB (7.4) Kirtland AFB (11.2) C'Hare Inc'l (7.4) Holling AFB (2.3) Logan AFB (7.4)	Proj Officer will accompany aircraft to final destination. Possibly pick up samples at McClellan for delivery to O'Hare & Logan.	Sample Proj Officer will accompany aircraft to final destination. Possibly pick up samples at McClellan for delivery to O'Hare & Logan.
Flyaway 14	R6D	Bravo / 4 to Bravo / 5 days	Max 150	2.3 2.5a 2.5b 2.6a 6.4 14.1	Max 200	Max 8000	Order of 1R at 1 Ft	Alameda NAS (6.4) (2.6a) (2.5a) Friendship-Halto (2.5b)	Kirtland AFB (14.1) Holling AFB (2.3) Friendship-Halto (2.5b)	Proj Officer - Pax to be determined prior to take-off. See Par 6 Annex U.	Sample Proj Officer will accompany aircraft to final destination. See Par 6.

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APPENDIX I
FLIGHT SCHEDULE (Union Day, 11 March 1954)

Flight	Type Aircraft	Departure Time	Project Samples Aboard	Number of Containers	Ft/Flt	Lbs/Flt	Radiation Level	First Destination & Closest Airport	Subsequent Destination & Statewide Flights required with Closest DCG Airport	Passenger Manifest	Remarks
Flyaway 21	R6D	H / 6 to H / 10 hr 11 Mar 54	11.2 7.4	Min 6 Max 12	Min 6 Max 12	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2) TU 9 film will be off-loaded at Hickam	C'Hare AFB (11.2)	2 for Proj 11.2 Max 5 add'l Pax plus Proj Officer	Flyaway 21 & 22 should arrive Kirt- land within minutes of each other. Sample Proj Officer to accompany air- craft to final des- tination. Papers will be split at Kirtland for sub- sequent delivery to C'Hare.
Flyaway 22	R6D	H / 6 to H / 10 hr 11 Mar 54	11.2 21.2 7.4 2.6a(7)	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2)	Alameda NAS (2.6a) (21.2) (7.4)	2 for Proj 11.2. Max 5 add'l Pax plus Proj Officer	Same as Flyaway 21 - except subsequent del- ivery of papers to Alameda for Proj 7.4 to 21.2. Sample Proj Officer to accompany aircraft to final des- tination.
Flyaway 23		H / 24 to H / 36 hr 12 Mar 54	2.3 2.6a 2.5b 7.4	Max 12	Max 180	Max 6000	Order of 200MR at 1 Ft	Alameda NAS (2.6a) (21.4)	McClellan AFB (7.4) Kirtland AFB (11.2) (14.1) Bolling AFB (7.4) Bolling AFB (2.3) Friendship-Balto (2.5a) Logan (Boston) (7.4)	Proj Officer Pax to be de- termined prior to take-off	Sample Proj Officer will accompany air- craft to final des- tination. Possibly pick up samples at McClellan for deli- very to C'Hare & Logan.
Flyaway 24		Union / 4 to Union / 5 days	2.3 2.5a 2.5b 6.4(7) 14.1(7) 2.6a	Max 150	Max 200	Max 8000	Order of 1R at 1 Ft	Alameda NAS (2.6a) (7.4) (6.4)	Kirtland AFB (14.1) Bolling AFB (2.3) Friendship-Balto (2.5b)	Proj Officer Pax to be de- termined prior to take-off	Sample Proj Officer will accompany air- craft to final des- tination.

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APPENDIX III
FLIGHT Schedule (Yarage Day 22 Mar 1954)

Flight	Type Aircraft	Departure Time	Project Samples Aboard	Number of Containers	FL/Elt	Lbs/Elt	Radiation Level	First Destination & Closest Airport	Subsequent Destination & Stateside Flights required with Closest DCC Airport	Monitors	Remarks
Flyaway 31	R6D	H / 6 to H / 10 hr 22 Mar 54	7.4 11.2 21.2	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2) TU 9 film off-loaded at Hickam	O'Hare AFB (11.2)	2 for Proj 11.2. Max 5 adult Pax plus Proj Officer	Flyaway 31 & 32 should arrive Kirt- land within minutes of each other. Sample Proj Officer will accompany air- craft to final des- tination. Papers will be split at Kirtland for sub- sequent delivery to O'Hare.
Flyaway 32	R6D	H / 6 to H / 10 hr 22 Mar 54	21.2 11.2 7.4 2.6a(0)	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2)	Alameda NAS (2.6a) (21.2) (7.4)	2 for Proj 11.2. Max 5 adult Pax plus Proj Officer	Same as Flyaway 31 except subsequent delivery of papers to Alameda for Proj 7.4 to 21.2. Sample Proj Officer to ac- company to final des- tination.
Flyaway 33		H / 24 to H / 36 hr 23 Mar 54	2.5b 2.3 2.6a	Max 12	Max 180	Max 6000	Order of 200MR at 1 Ft	Alameda NAS (2.6a) (21.4)	McClellan AFB (7.4) Kirtland AFB (11.2)(14.1) O'Hare Intl (7.4) Bolling AFB (2.3) Friendship-Baito (2.5b) Logan (Boston) (7.4)	Proj Officer Pax to be de- termined prior to take-off	Sample Proj Of- ficer to accompany aircraft to final destination. Possi- bly pick up samples at McClellan for delivery to O'Hare & Logan.
Flyaway 34		Jughead / 4 to Jug- head / 5 days.	2.3 2.5a 2.5b 2.6a 6.4 14.1(0)	Max 150	Max 200	Max 8000	Order of 1R at 1 Ft	Alameda NAS (2.6a) (2.5a) (6.4)	Kirtland AFB (14.1) Bolling AFB (2.3) Friendship-Baito (2.5b)	Proj Officer Pax to be de- termined prior to take-off	Sample Project Of- ficer will accompany to final destination.

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FLIGHT SCHEDULE (Nectar Day 5 April 19 4)

Flight	Type Aircraft	Departure Time	Project Samples Abscissa	Number of Containers	Ft/Flt Lbs/Flt	Radiation Level	First Destination & Closest Airport	Subsequent Destination & Starflight Flights Required with Closest DCU Airport	Monitors	Remarks
Flyaway 51	R6D	H 6 to H 10 hr 5 Apr 54	11.2 21.2 7.4 9.1	Min 6 Max 12	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2) 9.1 film will be off-loaded at Hick- am	O'Hare AFB (11.2)	2 for Proj 11.2. Max 5 add'l Pax plus Proj Officer	Flyaways 51 & 52 should arrive Kirt- land within minutes of each other. Sample Proj Officer to accompany air- craft to final des- tination. Papers will be split at Kirtland for sub- sequent delivery to O'Hare.
Flyaway 52	R6D	H 6 to H 10 hr 5 Apr 54	11.2 21.2 7.4 2.6a(7)	Min 6 Max 12	Min 800 Max 6000	Order of 2R at 1 Ft	Kirtland AFB (11.2)	Alameda NAS (2.6a) (21.2) (7.4)	2 for Proj 11.2. Max 5 add'l Pax plus Proj Officer	Same as Flyaway 51 except subsequent delivery of papers to Alameda for Proj 7.4 21.2 & 2.6a. Sample Proj Officer to ac- company to final des- tination.
Flyaway 53		H 24 to H 36 hr 6 Apr 54	2.5b(7) 2.3 2.6a 7.4 11.2 14.1 21.4	Max 12	Max 100 Max 6000	Order of 200HR at 1 Ft	Alameda NAS (2.6a) (21.4)	McClellan AFB (7.4) Kirtland AFB (11.2) (14.1) Folling AFB (7.4) Follin AFB (7.3) Friendship-Balto (2.5b) Logan (Boston) (7.4)	Proj Officer to be deter- mined prior to take-off	Sample Proj Officer will accompany air- craft to final des- tination. 7.4 will on- load samples at Mc Clellan for O'Hare & Logan.
Flyaway 54		Nectar 4 4 to Nec- tar 5 days	2.3 2.5a 2.5b 2.6a 6.4 14.1(9)	Max 150	Max 200 Max 8000	Order of 1R at 1 Ft	Alameda NAS (2.5a) (2.6a) (6.4)	Kirtland AFB (14.1) Folling AFB (7.3) Friendship-Balto (2.5b)	Proj Officer to be deter- mined prior to take-off	Sample Proj Officer will accompany air- craft to final des- tination.

AP-1011 v
FLIGHT SCHEDULE (Nectar Day 5 April 19 4)

AP-1011 v
FLIGHT SCHEDULE (Nectar Day 5 April 19 4)

APPENDIX VI
 FLIGHT OPERATIONS (Romeo Day 15 April 1954)

Flight	Type Aircraft	Departure Time	Project Samples Aboard	Number of Containers	Ft/Flt	Lbs/Flt	Radiation Level	First Destination & Closest Airport	Subsequent Destinations & Stateside Flights required with Closest DCI Airport	Monitor	Remarks
Flyaway 61	B6D	H / 6 to H / 10 hr 15 Apr 54	11.2 21.2 7.4	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2H at 1 Ft	Kirtland AFB (11.2) TU 9 film will be off-loaded at Hick- am.	O'Hare AFB (11.2) (11.2)	2 for Proj 11.2. Max 5 add'l Pax plus Proj Officer	Romeo 6 & 62 should arrive Kirt- land with 8 minutes of each other. Sample Proj Officer will accompany air- craft to final des- tination. Papers will be split at Kirtland for sub- sequent delivery to O'Hare.
Flyaway 62	B6D	H / 6 to H / 10 hr 15 Apr 54	11.2 21.2 7.4 2.6a(7)	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2H at 1 Ft	Kirtland AFB (11.2)	Alameda NAS (21.2) (7.4) (2.6a)	2 for Proj 11.2. Max 5 add'l Pax plus Proj Officer	Same As Flyaway 61 except subsequent delivery of papers to Alameda for Proj 2.4, 21.2 & 2.6a. Sample Proj Officer will accompany air- craft to final des- tination.
Flyaway 63	B6D	H / 24 to H / 36 hr 16 Apr 54	2.3 2.6a 7.4 2.5b(?) 11.2 14.1 21.4	Max 12	Max 180	Max 6000	Order of 200HR at 1 Ft	Alameda NAS (2.6a) (21.4)	McClellan AFB (7.4) Kirtland AFB (11.2)(14.1) O'Hare Int'l (7.4) Bolling AFB (2.3) Friendship-Balto (2.5b) Logan (Boston) (7.4)	Proj Officer to be deter- mined prior to take-off	Sample Proj Officer will accompany air- craft to final des- tination. 7.4 will on-load samples at McClellan for O'Hare & Logan.
Flyaway 64	B6D	Romeo / 4 to Romeo / 5 Days	2.3 2.5a 2.5b 2.6a 14.1	Max 150	Max 200	Max 8000	Order of 1R at 1 Ft	Alameda NAS (2.6a) (2.5a)	Kirtland AFB (14.1) Holling AFB (2.3) Friendship-Balto (2.5b)	Proj Officer to be deter- mined prior to take-off.	Sample Project Offi- cer will accompany aircraft to final des- tination.

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APPENDIX V
FLIGHT SCHEDULE (Koon Day 21 April 1954)

Flight	Type Aircraft	Departure Time	Project Aircraft	Number of Containers	Ft/Hr	Lbs/Hr	Radiation Level	First Destination & Closest Airport	Subsequent Destination & Closest Airport	Monitors	Remarks
Flyaway 71	R6D	H / 6 to H / 10 hr 22 Apr 54	7.4 11.2 21.2	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Alameda NAS (21.2) TU & film will be off-loaded at Lickap	Kirtland AFB (11.2)	2 for Proj 11.2; Max 5 add'l Pax plus Proj Officer	Flyaway 71 & 72 should arrive Alameda within minutes of each other. Sample Proj Officer will accompany aircraft to final destination. Papers will be split at Alameda for subsequent delivery to Kirtland.
Flyaway 72	R6D	H / 6 to H / 10 hr 22 Apr 54	11.2 21.2	Min 6 Max 12	Min 6 Max 180	Min 800 Max 6000	Order of 2R at 1 Ft	Alameda NAS (21.2) (11.2)		2 for Proj 11.2; Max 5 add'l Pax plus Proj Officer	Sample Proj Officer will accompany aircraft to final destination.
Flyaway 73		H / 24 to H / 36 hr 23 Apr 54	2.5b(F) 2.6a 7.4 11.2 21.4	Max 12	Max 180	Max 6000	Order of 200MH at 1 Ft	Alameda NAS (21.4) (2.6a)	McClellan AFB (7.4) Kirtland AFB (11.2) O'Hare Int'l (7.4) Friendship-Balto (2.5b) Logan (Boston) (7.4)	Proj Officer to be determined prior to take-off	Sample Proj Officer will accompany aircraft to final destination. 7.4 will on-load samples at McClellan for O'Hare & Logan.
Flyaway 74		Koon / 4 to Koon / 5 Days	2.5a 2.6a 6.4 2.5b	Max 150	Max 200	Max 8000	Order of 1R at 1 Ft	Alameda NAS (2.5a) (2.6a) (6.4)	Friendship-Balto (2.5b)	Proj Officer to be determined prior to take-off	Sample Proj Officer will accompany aircraft to final destination.

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INCLOSURE 2
MARKING SAMPLE RETURN BOXES
(This is a typical marking)

LENGTH 26"
WIDTH 14"
HEIGHT 12"
WEIGHT 1057

BOX 3 of 6 BOXES

TO: ALAMEDA NAS, SAN FRANCISCO, CALIF.
FOR: NAVAL RADIOLOGICAL DEFENSE LAB.
PROJECT: 2.6a
SAMPLE: BRAVO
RADIATION LEVEL: 50 MR AT SURFACE
FLYAWAY 23

This marking shows that the samples are from shot BRAVO, but being returned on the 3rd Flyaway after Union (see par2e)

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