

Sandstone # 3
C. 10A

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OPERATION SANDSTONE

NUCLEAR EXPLOSIONS

1948



~~RESTRICTED DATA~~
ATOMIC ENERGY ACT OF 1946

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
DATE REVIEW AUTHORIZED BY: <i>Doe/HQ Let's See 196</i>	DETERMINATION (CIRCLE NUMBER(S))
APPROVED (A/D):	1. CLASSIFICATION MAINTAINED
NAME: <i>Dennis W. Murphy</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>7/24/96</i>	3. CONTAINS & C. DOES NOT CONTAIN
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED
	7. OTHER (SPECIFY):

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B. PERSONNEL.

Monitors are assigned to survey work as follows:

2 Monitors	Eniwetok Island (See para. IIB 6).
1 "	Ujelang Island (See Para. III L).
12 "	To Survey Zero Island
4 "	To Survey Islands adjacent to Zero Island.

C. OPERATION

Two groups of two Monitors each will Monitor Bijiiri, Rojoa and Runit islands and other islands adjacent to Zero Island. Each group will carry radio equipment.

Four Groups of these monitors each will monitor Zero Island.

All buildings and other construction on the island, including special AEC construction, will be marked to assist in orientations and preparations of radio messages to Radops. Where construction and other terrain features do not permit adequate orientations a system of marked stakes will be installed.

All monitoring groups will be issued appropriate maps for the accomplishment of their mission and will have adequate facilities for radio communication.

V MONITOR REQUIREMENTS FOR XRAY 2 DAY AND LATER.

A. Monitor requirements for service tests not under Joint Task Group-7.6.

1. Bu Y and D to expose structures and instruments, taking photographs of structures both before and after explosion. "After" photographs to be taken from xray plus 2 to xray plus 10. One monitor per day.
2. OCE to expose structures, instruments, and certain equipment, taking photographs both before and after explosion. "After" photographs to be taken from xray plus 2 to xray plus 13. One monitor per day.
3. Additional monitors to be furnished if required.

B. Monitor Requirements for Service Tests under JTG-7.6.

1. JTG-7.6 to collect film badges, neutron detectors, etc., from xray plus 2 to xray plus 8. Three monitors per day.
2. JTG-7.6 to collect cascade impactors and collective protectors on xray plus 2, xray plus 3, and xray plus 13. One monitor per day.

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ANNEX I

Notes on Operations

Aerial Crater Survey-RadSafe Party No. 1

The C-47 with monitor took off from Eniwetok 30 minutes following the test. Northeast of the zero island and upwind, it encountered a small amount of fallout almost at once, but proceeded on its mission at 5,000 ft. with a background of 4 mr/hr. Phase one consisted of flights over the crater at various altitudes in order to determine the radiation intensity above the crater. It was flown at heights up to 5,000 ft. During this survey, readings were radioed in code to the USS MT MCKINLEY whenever the plane crossed an active area, Phase III included a check of the islands to the west of the test island at an altitude of 200 feet. Readings of 500 mr/hr were obtained over the three islands immediately to the west, indicating extensive fall-out on these islands. Phase II, a check of the air over the crater at 5,000 to 10,000 feet elevation, was then begun but the intensity at 8,000 feet indicated negligible radiation.

A further survey was made on X-RAY-plus 1, followed by a recheck on X-RAY-plus 6, at which time the ground monitors were also surveying the crater. Final analysis of these data is awaiting study of the decay curves, but it appears that excellent results were obtained.

Evidence of fall-out on the islands adjacent to the test island was later confirmed by the ground survey.

Eniwetok Island - RadSafe Party No. 2

The radsafe party in Eniwetok Island consisted of Captain Mallory and two assistants. The first members of this party arrived on Eniwetok Island, 30 March. A radiological safety center was established in the radiochemistry laboratory. This location was in close proximity to the drone parking area and proved to be ideal for the mission at hand. A TCS radio was installed by the Island Commander's communications office and continual watch was kept on this circuit with the RadSafe Center on the MT MCKINLEY and Radops on the BAIROKO. Complete rehearsals were held on PETER X-RAY Day with the drone landings and it was estimated that two monitors could handle the filter removal operation.

At 0725 following the shot the first drone plane landed. The drone planes were not parked together. This caused some confusion and it was very difficult for the monitors to keep in contact with all the personnel involved. However, by 1000 the top filters were unloaded and on their way to the states. None of the personnel involved received the tolerance limit of 3 r on this mission. After all of the filters were removed it was apparent that the air personnel could remove their data from the drones, as well as the film badges without exceeding the 0.1 r for a routine mission.

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Washing down and decontamination of the drones was accomplished by the air monitors. The washing was completed by the morning of X RAY-plus 3.

Some slight fall-out was observed about 2100 of X-RAY Day. No activity was observed in any of the salt or well water intakes. By X-RAY-plus 3 the island and swimming beaches were cleared and by X-RAY-plus 5 the drones were cleared for flight to Kwajalein.

Tank-ICM Operations - Radsafe Party No. 6

The purpose of the Tank-ICM operation was to procure a soil sample from the crater at the point of detonation of the atomic weapon. A tank revetment was built on each of the test islands located as far as possible from the zero point. In this revetment the chassis of a light tank, brilliantly painted for easy visibility, was concealed at the time of the test. It was equipped with remote controls, which permitted the vehicle to move either right, left, or forward. It was also fitted with a scoop in front for the purpose of lifting up a sample of the soil. When obtained this sample was divided into two parts, the smaller part was taken to the laboratory on board the USS BAIROKO, and the other to Eniwetok where it was loaded on aircraft and flown to the Los Alamos laboratories in the United States.

The tank was operated by remote control from a helicopter, after its operation had been checked by a ground operator, and it was guided by this means to the crater and return. If, for any reason, the helicopter and its standby lost control, the tank operation could be taken over by an auxiliary set of control equipment in the ICM which brought the party to the island. The ICM also carried an additional tank for use if the first tank failed.

The monitors assigned to this mission on X-Ray Day were LCDR Vandergrift and LT. Woy. Dr. Bowman, who was in charge of the mission, and Mr. Stanley, his assistant, remained behind on Eniwetok completing the drone filter removal, as the Tank ICM took off for the test island. The ICM picked up the monitors from the BAIROKO and beached at the lower end of the island not far from the Tank Revetment. No damage had been done to the tank by the blast other than loss of the antenna. This was replaced, the tank was started and driven out of the revetment to await the arrival of Dr. Bowman and Mr. Stanley by helicopter. Upon his arrival at 1110, the tank controlling helicopter was called from the BAIROKO, and Dr. Bowman accompanied by LCDR Vandergrift proceeded by jeep to lay out the flag markers, beyond which it would be unsafe for the tank controlling helicopter to fly.

The tank performed well, and made two runs with samples which were considered too low in intensity. On the third attempt the tank was stalled in the crater and could not be moved by remote control. The reserve tank could not be used because it was now minus its radio antenna which it had sacrificed for the first tank.

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The first sample was taken for study, and divided. The first part arrived with LCDR Vandergrift at the BAIROKO at 1330, and the second arrived at Eniwetok with Lt. Woy by 1740. The party became contaminated to some extent and arrangements were made to clear this party at Eniwetok.

The tank control operator was subject to some exposure, and to protect this operation a second helicopter containing a monitor was dispatched to accompany and remain forward of the operating plane.

Helicopter Operation - Radsafe Party No. 7

This mission consisted of the dispatch by helicopter, of members of the IAJ-3 group to the land cable on the test island, in order to assist in the recovery of samples. It was essential that certain of the samples on the land cable be recovered as quickly as possible in order to take proper technical measurements. Winding the cable on to the drum of the winch took considerable time, and starting the drum promptly saved time for the AVR party which later came to the island to complete the collection of the samples.

A monitor was sent as monitor for this party to accompany Dr. Ogle and his assistants. The duties of the monitor included the clearing of the landing for the other helicopters, standing by while the winch was started, going forward along the cable in a jeep with Dr. Ogle to recover samples near the zero point and later opening up the cache and starting the radio communication.

Three helicopters were used. It was found after X-RAY Day that the operation would be facilitated if six men were sent in on this operation, accompanied by two monitors, and this procedure was followed on succeeding tests.

On X-RAY Day, a monitor cleared the landing of the other planes, and went to the cache where he found the door blown in and the radio inoperable. Several of the samples were missing from the cable as it was wound in, and Dr. Ogle with the monitor went forward to locate these samples. The mission was accomplished in less than two hours with very low exposure (200 mr) to all personnel. The monitor then returned to the AVR and accompanied an unscheduled water cable party. No samples were found either afloat or on the bottom of the lagoon, as far as could be seen. Since the party went quite close to the zero point in the water, considerably more exposure was the result. However, the total received was well within the tolerance established. More of the missing samples were recovered in later trips to the island.

Strategic Plot Center

STRATEGIC PLOT maintained a fall-out chart of the lagoon, and nearby atolls of Kwajalein and Ujelang. The Eniwetok atoll chart was kept up

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to date as reports came in and an iso-intensity line of 0.1 r per day in the lagoon water was also plotted on this chart.

The surface and air radexes were plotted daily from weather data obtained from Aerology. Utilizing a vector analysis of the wind velocities, fall-out patterns for the surface, 15,000, 20,000, 25,000 and 30,000 feet were determined. These patterns were plotted on charts with a superimposed polar grid. From the fall-out patterns, the surface radex, given as two bearings from zero point, and also recommendations as to the direction of the third pass for each drone plane mother were determined.

Definite criteria were used to determine whether or not the day was operational from a radiological safety viewpoint. If the fall-out from 45,000 feet or below, did not extend between 90°T or 170°T from zero point, the day was considered operational. If the fall-out from 45,000 feet fell on the bearing of Eniwetok-Parry islands (150°-160°) the day was considered questionable with moderate hazard. If the fall-out from 35,000 feet or below fell on these islands, the day was considered non-operational.

Three days preceding the test a forecast for a test day was made, and on the day before the test day the latest weather forecast was presented at 1800. Actual wind data was plotted at intervals from this time to 0300 at which time the last balloon sounding was made and the data was prepared for the briefing.

X-RAY Plus Two - YOKE Test

Considerable radioactivity was found on the islands west of the test island, indicating extensive fall-out. Evidences of fall-out elsewhere were slight. A consolidated report was prepared and all the evidences of fall-out noted during the days following the test.

On X-RAY-plus 5, Commander Task Group 7.6 sent a report to Commander Joint Task Force 7 stating that the survey of all the perimeter islands had been completed, and recommended that long term closure of the islands from Yeiri westward to the southwest passage inclusive be instituted because of the radioactivity discovered along the beaches and the evidences of fall-out. The temporary clearance of the other islands and of the lagoon beaches on these islands for swimming was recommended.

Dust collectors had been set up on each of the principal ships of the Task Force, and were examined daily, together with a careful check of the evaporators.

Several surveys were made on the test island and the gradual retreat of the iso-intensity lines was plotted in Radop.

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On the fifth day after the test, a guard of two monitors each morning and afternoon was set up on the test island, and the Beach Radsafe Center established. This made the island more accessible to the engineers who were to work on the portion where the intensity of radiation was now below tolerance limits. It considerably reduced the monitor demand on Task Group 7.6, and at the same time insured a closer watch on the many parties that had mission on the test island.

The bogged tank was recovered from the crater, and work was begun by the engineers to destroy the remains of the test structures on the island in order to prevent any unauthorized persons from obtaining any information on the effects of the tests.

On X-RAY-plus 9 the USS BAIROKO shifted its anchorage to a location off the test island for YOKE Day, and final preparations for YOKE test were well underway. Two days later the island of X-RAY test was closed to all personnel.

Preparation for YOKE Test

Installation of stakes, and the painting of numbers on various structures of the test island facilitated island surveys. Three stakes at hundred yard intervals were placed on the island immediately to the north of the zero point for use in any surveys that might be made in this direction. The stakes on the test islands were not located on a systematic radial manner from the zero point as was the case in test X-RAY, because the engineer structures were located in a cleared strip extending along the lagoon side of the islands and about 300 yards wide. It was planned to ignore, for all practical purposes, the extensive palm grove on the portion of the island toward the ocean, and which was expected to become a mass of tangled rubble as a result of the test. All of the island survey monitors were thoroughly briefed.

Because of the evidence of fall-out from the X-RAY test, it was decided by higher authority to maintain monitors on the destroyer patrols until YOKE-plus 4. Accordingly a monitor was assigned to each of following destroyers:

USS TUCKER (DDR 875)
 USS SPANGLER (DE 696)
 USS GEORGE (DE 697)

YOKE Day

A huge cloud resulting from the explosion of the atomic weapon was still plainly evident thousands of feet above the zero island when the four helicopters came in on the southern tip of the island for a landing. The landing was made about twenty minutes after H hour. Major Cook in a jeep with Dr. Ogle and Mr. Linnenberger went along the land cable to assist in recovering the samples at various points along it. Major Sheppard

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stayed with the remainder of the party in the vicinity of the winch. All but 100 yards of the cable was recovered with all of the samples except two of the multiple samples. The winch and cable remained cool (50 mr) during more than half of the operation, and then began to get rapidly higher intensities until it reached 15,000 mr at six inches. A piece of metal, supposedly a link from the tower cable was found near the winch testing higher than 5,000 mr. This material was removed to a safe distance from the operation. Major Cook crossed the causeway with Dr. Ogle, approaching the zero point to a reading of 20,000 mr/hr and returned. The mission was entirely successful, all members of the party taking proper precautions in handling the samples with gloves and tongs, and no overexposures were obtained.

Major McDornel's party landed about twenty minutes behind the helicopters, beaching on the island by an LCVP that had been picked up by the AVR. The missions at Gamma "A" and Gamma "B" station were completed satisfactorily although at Gamma "A" station the roller tracks were wedged and the party at this station received some contamination on their clothing while forcing an entrance. A camera placed on the causeway was recovered. All of the personnel returned on the AVR 38, and were checked for contamination on boarding the USS BAIROKO. Meanwhile the samples had been flown by helicopter to the laboratories on the USS ALBEMARIE for final analyses. The entire operation was completed earlier and more efficiently than in test X-RAY.

Following the test, the USS BAIROKO weighed anchor and was proceeding slowly to its anchorage off the test island, preceded by four boats patrolling the lagoon waters ahead of the ship. Two other boats preceded the rest of the JTF 7 fleet to their anchorage off the island to be used for test ZEBRA. These boats were tracked and plotted by radar and the readings of radiation intensities in the water were transmitted in code to the Radsafe Center and to Radops on the BAIROKO. Iso-intensity lines of water contamination in the lagoon between the anchorage and the test islands were plotted for the information of the Task Force Radiological Safety Officer.

The background count of radioactivity on the bridge of the USS BAIROKO began to raise noticeably immediately following the test, but the amount was not alarming and it was decided not to change the anchorage. This increase in background was also observed at the same time on Parry Island, and was probably a wide-spread phenomenon.

The survey of the test crater from the air was begun by LCDR King in a C-47, but he was forced to turn back when his plane received so much fall-out from the cloud that the readings in the plane began exceeding the daily tolerance.

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At H-plus 3 hours two monitors boarded the Tank LCM as it came by the BAIROKO and proceeded to the zero island to await Dr. Bowman who was to fly to the island by helicopter after supervising the removal of filters from the drone planes at Eniwetok. Dr. Bowman arrived at 1050, and flags were placed at the center of the causeway marking the limit of safety for the tank controlling helicopter. The helicopter in which the tank operator, was riding was forced down by engine trouble on another island, and caused some delay before he could be flown in for the operation. At 1130 the operation was ready. The tank that had been stationed in the revetment during the test was driven manually to the causeway, and from thence proceeded under remote control operation to the crater formed by the test weapon. The tank soon became bogged down, and efforts to get it started again were unavailing. The reserve tank that had been brought up in the LCM was then sent in and successfully obtained a soil sample from the desired point, returning to the uncontaminated end of the island. This soil sample was divided, a small portion being sent to the laboratories on the USS BAIROKO, and the remainder being taken to Eniwetok by one of the monitors. This latter sample reached Eniwetok by 1510 and was dispatched by air to laboratories in the United States.

During this entire operation a standby helicopter with a monitor took up a position near the tank controlling helicopter, in order to insure that the latter would not be overexposed to radioactivity. When this plane landed to investigate the trouble with the tank, the monitor in the other helicopter checked most of the island at an altitude of 500 feet, except that portion in the vicinity of the zero point.

The evaporators on the BAIROKO and on the MT MCKINLEY were checked for radioactivity and found satisfactory.

YOKE Plus Two Day

The northeast perimeter survey of the islands left the BAIROKO at 0930 in two dukws. Extensive evidence of fall-out was found on all the islands of this section. A detailed survey was impracticable within the restrictions of a routine mission, and readings had to be taken while moving rapidly along the beaches in the dukws. Only half of the islands planned for survey could be covered before tolerance doses had been received by all personnel. Some evidence of water contamination was observed, and all results were reported in detail to Radops where a complete fall-out report was prepared.

At about 1000 hours the background on the flight deck and hanger deck of the USS BAIROKO began to noticeably increase, and it shortly became evident that appreciable fall-out was occurring on the ship. About the same time, it was reported that fall-out had occurred on Kwajalein, and steps were taken to fly water samples to the laboratories on the BAIROKO for study. The maximum reading recorded on the BAIROKO was 1.7 mr/hr. Hourly samples of filter papers from the dust collectors were taken.

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throughout the day, and studies of beta count made in the laboratory, a cascade impactor was operated at the same time. Early in the afternoon fall-out appeared to have ceased but it caused considerable trouble for the deck monitors in their examination of equipment and clothing of parties returning from the test areas. The water samples from Kwajalein did not reveal any harmful contamination. No contamination was detected in the showers of rain that fell through the day. Fall-out was also detected on other ships of the Task Force, but to a lesser extent than on the BAIROKO. Negligible contamination was found in the evaporators which were being checked daily.

YOKE Plus Three Day to ZEBRA Test

The contamination of the lagoon waters had reached an insignificant figure by YOKE-plus 3 day, and further survey of the lagoon anchorage, other than an occasional spot check, was discontinued. The islands of Runit, Parry and Eniwetok were cleared for swimming and recreation parties.

The island immediately north of the test island was heavily contaminated from fall-out, and also received considerable radiation from the crater. Stakes had been planted on this island prior to the test to assist in the survey, but none of them could be found after the blast. The extensive palm grove on the island had been completely destroyed.

Monitor guards were established on YOKE-plus 4, and maintained continuously until the island was closed just prior to ZEBRA test. Their presence considerably facilitated the work of the engineers in clearing evidence of blast effects from the island.

Samples of water obtained from Kwajalein, and other neighboring island groups, where fall-out occurred or where there had been a possibility of fall-out, were checked and found safe for human consumption.

The island of YOKE test was closed and declared a restricted area on YOKE-plus 11. Reconnaissance on the island of ZEBRA test, and the survey of lagoon currents off this island had already begun.

ZEBRA Test

A large area of fall-out was observed from the air extending out into the lagoon on an azimuth of 280° from the zero point. This area was confirmed by boat patrol and its course plotted until it was assured that it was not a source of danger to the ships of the task force.

Radsafe Party No. 4 ran into considerable difficulty on their mission, because snagging of the land cable made it impossible to wind the samples in to a safe area where they could be conveniently handled. The importance of obtaining these samples made it necessary to pick them up by jeep, which exposed the party to considerably greater radioactivity than had been met on

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previous missions. Rotation of the working personnel resulted in getting the most work accomplished within the exposure allowed, and this reassignment was made smoothly and without confusion.

Considerable fall-out on the islands north of the test island was observed by the C-47 plane survey and later confirmed by ground measurements. Fall-out was also received on the photo tower and on Eniwetok, but it rapidly decayed and never approached the tolerance limit.

On the LCM Tank Mission, Radsafe Party No. 6, the first tank became stalled near the zero point, but the reserve tank successfully obtained the desired samples.

In the operations on Eniwetok Island, it was found that the drone planes showed evidence of much higher exposures than on the previous tests. The top filter boxes were removed from the drones, but it was considered more efficient in the case of the bottom filter boxes to remove the filter paper holders without removing the boxes from the planes. Gloves and 18" tongs were used for this operation, although a stapling machine was used to mark the papers. The monitors kept the handling personnel advised of the intensities at all times. During the stapling operation, it was realized that the personnel were near tolerance, but, as no relief personnel were available and a halt in the operation would have caused a serious delay, the workers continued to work until the papers were loaded on planes and on their way to the ZI. It was recommended that more remote methods of handling filters for future tests be devised.

On ZEBRA-plus 3 days all of the ships of the task force in the lagoon were inspected by monitoring parties. These groups paid particular attention to the blower intake screens, the open decks, the ship's boats, the evaporators, the auxiliary condensers and any cargo that the ship happened to have on board.

All monitoring operations ceased after ZEBRA-plus 5, and the test island was declared closed. Captain Mallory was assigned to remain at Eniwetok Island until relieved by the permanently assigned garrison monitor.

Monitor Schedules.

Copies of Monitor Schedules for Operation SANDSTONE are appended to this ANNEX as Appendix (1).

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OPERATIONS SCHEDULE FOR X-3 DAY AND EARLIER

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
10	PX-4	Lt Babcock	LST 219	B	To Ujelang with LST 219 as monitor. To return by plane via Kwajalein on X+2.
19	X-7	CETM Mademahn	ATC Plane	A	To Kwajalein as instrument repairman - Remain until X+7.
15	X-4	Capt Gaines Ens Ashley	ATC Plane	C	To Kwajalein as FBH monitors. To Eniwetok on X+1 via shuttle plane.
12	1200 X-3	LtCdr Olivari (DDR-875)	LCI (Ferry ABLE)	D	To Gardiner's Bay for transfer to U.S.S. TUCKER as DD monitor. To return on X+1.
12	1200 X-3	Maj Mather (DE-696)	LCI (Ferry ABLE)	E	To Gardiner's Bay for transfer to U.S.S. SPANGLER as DD monitor. To return on X+1.
12	1200 X-3	Dr Morton (DE-697)	LCI (Ferry ABLE)	F	To Gardiner's Bay for transfer to U.S.S. GEORGE as DD monitor. To return on X+1.
20	Daily at 0845 prior to X-2	Capt Kimbel Lt O'Leary Lt Barth Dr Nolan CY Harmon	CVE-Boat	G	To man RadSafe Center on AGC-7. Remain on AGC-7 after X-2.

Appendix (A)

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OPERATIONS SCHEDULE FOR X-2 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
19	0800	Cdr. Langer Dr Andrews & assts.		H	To AGC-7, AV-4, AV-5 and CVE-115 to scrtice filter queens.
19	0600 0800- 1700	Maj. Shappard Dr Scoville Capt Draeger Cdr Andrews Cdr Hoffman Cdr Langer Mr Seigel Lt Vicars CPhM Johns SF3 Pearson LtCdr Erickson	SIC DUKWS LCVP (HARIKARI)	HA I	Place badges on down wind islands To Zero island to prepare Test equipment for detonation.
19	0900	Lt Pierce, Mr Murphy	LCVP (HARIKARI)	J	To test LCVP (DEAD DUCK) and return.
2	1300	XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX Capt Mallory 1ST/SGT Mason M/SGT Daugherty LtCdr Eldredge Lt Speicher Capt Franks R.M. Hall	LCM (DALMATION)	K	Via LCM to Eniwetok and various monitor missions during test. Upon arrival of LCM at Eniwetok LCM to report to boat pool and boat crew to U.S.S. COMSTOCK. LCM delivers Lt Speicher U.S.S. PICKAWAY, APA-222.
9	1400	Lt Woods	PPB	L	To AV-5 as topside monitor
22	1430	VIPs	LCI & PPB	M	VIPs arrive Engebi via LCI and are transferred to CVE.
18	1900	LtCol Houghton Maj McDonnel	PPB (BURSTEAD)	N	To AV-4 to spend night and participate as disaster party in X-1 operations.

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OPERATIONS SCHEDULE FOR X-1 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
18	0530	LtCol Houghton Maj McDonnel	AV-4 Boat	O	Houghton and McDonnel from AV-4 to ZERO island. Proceed to tank revetment and remain there until 1200. TG 7.6 truck will be available for their use.
19 21	0800	Capt Draeger Cdr Andrews Cdr Hoffman Mr Seigel Lt Vicars CPhM Johns	LCVP (JOIST)	P	T.U. 7.6.6 party to ZERO island Place film badges, biological samples and start collective protector.
22	0830- 1100	VIPs	PPB (BUMSTEAD)	Q	To AGC-7 for VIP briefing
19	0830	Dr Scoville Dr. Nolan	PPB (BUMSTEAD)	R	To AGC-7 to join RadSafe Center and remain after detonation.
21	0900	Lt Pierce Mr Murphy	LCVP (JOIST)	S	To test LCVP (DEAD DUCK) to start collective protector.
	1030	Cdr Winant	PPB (BUMSTEAD)	T	To AGC-7 to attend staff conference.
21	1045	Lt Pierce Mr Murphy	PPB (BUMSTEAD)	U	To test LCVP (DEAD DUCK). To pick up Pierce and Murphy and return to CVE.

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~~SECRET~~OPERATIONS SCHEDULES FOR X-1 DAY (CONT'D)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
4	1130	Maj Cook Maj Rossano Capt Bolen M/SGT Hermansen Maj Goodsell Lt Cullen	PPB (BUMSTEAD)	V	Monitor party from CVE to Zero island personnel landing to await departure LCT 1345.
3 5					
17 21	1145	Capt Draeger Cdr Hoffman Cdr Andrews Mr Seigel Lt Vicars CPhM Johns LtCol Houghton TG 7.6 Jeep	LCVP (JOIST)	X	Returns TU 7.6.6 party to CVE with Houghton from disaster party. Jeep placed on LCVP prior to 1100. On return LCVP and jeep brought aboard CVE.
18					
	1300	Cdr Winant	PPB (BUMSTEAD)	Y	Returns Winant from staff conference on AGC-7 to CVE. On return PPB brought aboard CVE.
4	1300	Maj McDonnell Maj Cook Maj Rossano Capt Bolen M/SGT Hermansen Maj Goodsell Lt Cullen	LCT 1345	Z	Monitor party boards LCT 1345 from Zero island and proceeds to Parry Island and various monitor missions.
3 5					
1	1435	LtCdr King	ATC C-47	AA	Arrives Eniwetok from Kwajalein to remain after detonation as C-47 radsafe survey plane monitor.

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<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
4	0400	Maj McDonnel Maj Rossano Maj Cook Capt Bolen M/SGT Hermansen	AVR-38	AB	Board AVR-38 on return of this boat to Parry Island.
5	0400	LtJG Cullen	AVR-53	AC	Board AVR-53 on return of this boat to Parry Island. Remain on board for air/sea rescue.
	H (approximate time of detonation)				
4	H plus 10 min.	Maj McDonnel Maj Rossano Maj Cook Capt Bolen M/SGT Hermansen	AVR-38	AD AE AF AG	Leave Parry Island for ZERO Island. Arrival about 0600. M/SGT Hermansen remains aboard AVR-38. Monitor land cable winch. Monitor operation at Gamma stations. B & A. Returns to recover more samples from land cables
	1010	Maj. Rossano	AV-5-boat		

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OPERATIONS SCHEDULE X-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
7	H plus 10 min.	M/Sgt Long	Heli- copter	AH	In helicopter to take-off from CVE and land on Zero Island near winch at 0540.	U
				AI	Long clears landing of other two.	
				AJ	If possible check radio oper- ation of Dalmation, monitor for land cable party. Return to CVE-115 by AVR #38.	
17	H plus 10 min.	Mr. Ogle (TG 7.1)	Heli- copter	AK	From CVE to water cable for recovery.	U
2	H to H plus 3 hr.	Capt Mallory M/Sgt Daugherty 1st/Sgt Mason 1st/Sgt Mason 1st/Sgt Mason	None	AL	Monitor drone planes upon landing at Eniwetok. Filter units removed and disposed of by LAJ-2 personnel. Clear island.	U
				AM	Watch for fall-out.	
1	H plus 30 min.	ICdr King	C-47	AN	C-47 mission starts aerial survey on orders of Command- er Air Forces. (Big Ben)	R
8	H plus 20 min.	ICdr Eldredge	Photo. boat	AO	Leave Eniwetok for Coral Head Photo Tower to assist in recovery of film and re- turn to Eniwetok.	U

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OPERATIONS SCHEDULE X-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
17	H plus 1 hr.	Mr. Ogle (TG 7.1)	Helicopter	AP	Leaves from area of Zero Is. with water cable samples to AV-5. Leaves samples and returns to CVE-115.	U
6	H plus 3 hr.	ICdr Vandergrift Lt Woy	LCM (Tank)	AQ	Proceed to Zero Island and proceed to Zero Island. LCM beaches near tank revetment.	U
				(AEC Boat) AR	LCdr Vandergrift returns to CVE by boat with crater sample to CVE-115.	
				AS	Lt Woy returns with crater samples to Niwetok.	
				AT	After samples are placed in storage at Niwetok Lt Woy returns to CVE.	
25	H plus 3 hr.	ICdr Carr		AU	Monitor in second helicopter monitoring for tank guiding helicopter.	U
9	H plus 1 to H plus 4	Lt Woods		AV	Monitor landing by helicopter of samples from Zero Island on AV-5.	
11	H plus 1 and later	Capt Steed		AW	Monitor returning helicopters, R personnel, and land samples on CVE.	

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OPERATIONS SCHEDULE X-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
16	H plus 20 min.	Capt Franks	L-5	AX	Surveys Aoman, Rijiri and Runit by L-5 from Eniwetok. L-5 in company recovers technical films from Aoman Photo Tower.	U
21	H plus 3 hr.	Maj. Cook XXXXXXXXXX	CVE-115 boat	AY	Goes aboard LCT 472 as monitor off Engebi remains over night or until relieved.	R
13	1410 When directed by CTG 7.6	Lt. Vicars Cdr Smith	Harikari Bumstead	AZ	To Muzin & Karenian to recover film badges. Lagoon re-entry patrol to debark and precede CVE-115 into lagoon until anchored and then patrol anchorage, and collect water sample.	R
14	"	Lt Pierce Lt Col Houghton	Joist	BA	" " "	R
				BB	Place filter queen in operation near Gamma B station. (H plus 7).	
4	H plus 4	Maj McDonnel Maj Rossano Capt Bolen M/Sgt Hermanson 1st/Sgt Long	AVR #38	BC	Returns to CVE via AV-5.	
				BD	M/Sgt Hermanson remains aboard AVR #38 and accompanies it for air/sea rescue.	
23	H plus 6 1/2	Lt Phillips	AV-5 Boat	BE	LAJ-4 Mission	U
4	H plus 8 1/2	Capt Bolen	AV-5 Boat	BF	LAJ-5 Mission	U

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OPERATIONS SCHEDULE X-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
23	H plus 8	Lt Phillips	AV-5 Boat	BG	Return to CVE from LAJ-4 mission to zero island.	
4	H plus 10	Capt Bolen	AV-5 Boat	BH	Return to CVE from LAJ-5 mission to zero island.	
9	1600	Lt Woods	CVE Boat	BI	Returns to CVE from AV-5.	
16	1400	Capt Franks	L-5	BJ	Re-checks Aoman and Runit.	
8 16	1600	ICdr Eldredge Capt Franks	Dalmation	BK	Returns to CVE by Dalmation from Eniwetok via Parry	
6	1600	R.M. Hall Lt Woy	Dalmation	BL	Leaves not later than 1600.	
3	1600	Maj Goodsell	Dalmation	BM	Returns to CVE by Dalmation from Parry Island.	
	1700	Scoville XXXXXXXX Kimbel Nolan	CVE-115	BN	Returns to CVE by boat from AGC-7.	
5	1700	Lt Cullen		BO	Returns to CVE from AVR #53 and AVR #38 after securing of air/sea rescue detail.	
4		M/Sgt Hermanson		BP		
21	1900	Lt Phillips Lt Venters	CVE-115	BQ	Relieves Venters at ICT 472.	

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OPERATIONS SCHEDULE X PLUS 1 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
101	0830 0830	Cdr Smith	Dalmation	HR	In charge of survey operations.	R
101	0830 0830	LCdr Coe	"	BS	To check data at Beach RadSafe Center with jeep.	R
101	0830 0830	Maj Sheppard	"	BT	To plot data at Beach RadSafe Center. (3 copies soonest)	
101	0830 0830	Capt Helgestad	"	BU	Checker and communications.	
		Maj Rossano	"	BV	ABLE Group	
		Capt Steed	"	BW	" " (To change filter in filter queen)	
		Lt Pierce	"	BX	BAKER Group	
		LtJG Flynn	"		" "	
		XXXXXXXXXX Lt. Woy	"		" "	
		M/Sgt Hermanson	"		" "	
		Maj Cook	"	BY	CHARLIE Group	
		LCdr Carr	"		" "	
		Lt Woods	"		" "	
		Maj Goodsell	"	BZ	DOG Group	
		Maj McDonnell	"		" "	
		XXXXXXXXXX	"		" "	
		Maj. Mather) Capt. Anderson)	Repair Cache		Monitoring group will return when mission is accomplished. (About 1030). Deliver copy of chart to Cooney (AGC-7) and Froman (AGC-7) - (one each).	
		Maj. McDonnell			With 5 photographers	

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OPERATIONS SCHEDULE X PLUS 1 DAY

EASY PARTY NO.	TIME	MONITORS	BOAT	MISSION NO.	OPERATION	PRIORITY
102	0700	Capt. Belen	AV-5	CA	Waiter for party going to Gamma A Station if necessary. Return to CVE by AV-5 boat.	U
104	0800	LCDR VANDERGRIFT-Joist M/Sgt Long		CB	EASY Group	R
	0800	Lt. Cullen None	Harikari	CC	Harikari returns to CVE from Eniwetok.	
105	0800	LCDR ELDRIDGE-Joist Capt Franks Ens. Ashby		CD	FOX Group	
103	0900 0900	Lt. Barth	Harikari Harikari	CE	To patrol lagoon anchorage and Engebi waters as directed.	R
107	0800	8 air monitors-Air Capt. Gaines (CTG 7.4) Ens. Ashley		CF	8 Air monitors for drones. To assist Mallory in clearing drones and to accompany drones back to Kwajalein.	
				CG	Gaines and Ashley to assist Mallory on X plus 1. C-47 aerial survey	R
1	0900	Lcdr. King				
22	0830	VIP's(Fm:CVE)-CVE boat		CI	To ACC-7 for briefing at 0900 on test results.	
21	0900	Lt. Phillips CVE Boat		CJ	Return Lt. Phillips from LCT 472 to CVE 115.	

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OPERATIONS SCHEDULE X PLUS 1 DAY (Cont'd)

<u>RADSAFE</u> <u>PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION</u> <u>NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
12	1200	Major Mather LCDR OLIVARI Dr. MORTON Lt. SPEICHER		CK	Return to CVE from Destroyer and USS Pickaway as early as practicable.	
108	1300	Lt Col Houghton Joist LCDr Campbell Maj Stone Dr Sowers		CH	To take jeep to edge of asphalt and walk towards tower stumps monitoring the crater to a dose 50 mr. then to evacuate.	R
109	1430	Lt Pierce	Bumstead		Lagoon Patrol	
110	1430	Col Cooney Capt Kimbel	LCI		With VIPs to zero island	
	1400	LCdr Oldfield Lt Barth			With LAJ-8 Party to blast footings	
	1600	Maj Mather Lt Phillips			With LAJ-8 party to island	

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~~SECRET~~OPERATIONS SCHEDULE Z PLUS 1 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
104	0830	Lt Barth	LCVP	BF	Lim badge recovery.	R
103	0830	Maj Mather XXXXXXXXXX	BUNSTEAD ABL; XXXXXXXXXX	BG	To patrol lagoon anchorage R near Aman and Runit as directed.	
107	0830	8 Air monitors-Air (CTG-7.4)		BH	6 air monitors fro drones, To assist Vandergrift in clearing drones and to accompany drones back to Kwajalein.	
		Capt Franks Lt Woods		BI	Franks and Woods to assist Vandergrift on Z plus 1.	R
22	0830	VIP's (Fm:CVE)-CVE Boat		BJ	To AGC-7 for briefing at 0900 on test results.	
11	0900 1700	Lt Cullen XXXXXXXXXX Capt. Steed Capt. Kimbel	None	BK	On CVE as duty decontamination monitors.	

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OPERATION SCHEDULE Z PLUS 1 DAY (CONT'D)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
24	0900	Lt Babcock		BL	Return to CVE from USS PASIG as early as practicable.	
20	0800	Lt Phillips	LCVP	BM	To return to CVE from AGC-7.	
	1230	Lt Phillips			Dr. King on LAJ-5 mission will come by CVE. 300 mr/hr mission.	
	1230	Cdr Smith Capt. C. C. Cook Maj Rossano Dr. Morton MSGt Daugherty Lt Speicher Lt. Flynn Capt. C. C. Cook		BN	On CVE for LAJ-8 missions. 300/mr/hr mission.	
	0900 1700	Maj Stone Maj McDonnel Capt. C. C. Cook Lt. Babcock		ABN BO	With Mr. Cloud on special mission to Runit. In reserve for urgent missions which may arise.	
	1300	Maj. Cook			LAJ-3 Party to Runit for Land Cable sample recovery	
	1300	Lt. Venters Maj. Stone Leadr. Clifford			SECRET LAJ-3 Party with DUKMS for water cable sample recovery With Dr. Donahue to Lamon to collect marine samples.	

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7.6. MONITOR MISSIONS, APRIL 17

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>0.2</u>	<u>5.0</u>
201	No. Perimeter Survey (From Aeman)	OLDFIELD VANDERGRIFT	0630	0615	2	0	20	4	
202	North Swimming Survey (to go with #201 to Aeman) Aeman, Recreation Is. and Runit (plus 3 man boat crew)	FRANKS	0630	0615	2	0	6	2	
203	Freman, Bowman, Bensen and Winant, plus 4 in boat crew	BOLEN (read Pee-wee)	0815	0745	1	1	12	12	
204	Biological Sample (with Capt. Draeger)	HEERMANSON	0830	0800	1	1	3	3	
205	Structure photo and film recovery on OCE & BuY&Ds structure (with 7 man photo crew)	SCOVILLE HOFFMAN VICARS	0830	0800	3	3	20	17	
206	Adm. Ramsey	HOUGHTON	0845	0815		1	3	3	
207	Adm. Salada	WHIPPLE	0845	0815		1	3	3	
208	LAJ-8: (Curtis, Blair Biagi, Mesyareus, Moulton, Allman, Randall Glickman, and Dwyer)	SPEICHER WOODS PIERCE STEED	Approx. 1245	1100	4	4	17	17	
209	Zere Is. Survey (dirt sample #210)	WOY COE CULLEN COOK	0900	0830	4	4	4	4	
215	LAJ-5: King and Bentzen	O'LEARY	1300	1245	1	1	4	4	
217	Monitor for Col Mc Dennell Hel. Engbi Is.	MAJ. McDONNELL	0930	0900	0	1	3	3	

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>0.2</u>	<u>5.0</u>
210	Dirt samples from near Engebi personnel landing (to be done by party #209)		0900						
211	Water sample collection to north and west of CVE along reef at about 10 MR/HR if possible and water survey	OLIVARI	1300	1230	1	1	2	2	
212	LAW-3: (4 men) plus 2 men for DUKW plus 4 men boat crew (Ogle, Linnenberger) 1 ICI, 1 ICM	FLYNN PHILLIPS	0900	0830	2	2	25	12	
213	CVE Filter Queen (check and filter replacement) AV-4, AV-5 and AGC-7	SCHAPPACHER	1000	0930	1				
214	CVE evaporation check (Info. to CTG 7.6)	SMITH			1		1		
2	Drone plane clearance	MALLORY DAUGHERTY	On Station						Have Instruments
216	South Swimming survey (Eniwetok & Parry)	MASON MALLORY	On Station						Has Instruments
15	So. Perimeter survey (From Eniwetok)	GAINES ASHLEY	On Station						Have Instruments
218	CVE duty decontamination Monitor	ELDRIDGE	1000	0930	1				
219	4 Men decontamination of duck	COE WOY	1300		1				
220	Helicopter	SMITH KING	1330			2	6	6	

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STANBY MONITORS - GOODSELL
SLITH

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7.6 MONITOR MISSIONS, APRIL 18, 1948

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
301	<u>N.W. Perimeter Survey:</u> (From Engebi west, by DUKW from CVE) (Collect films and slides)	SHEPPARD HELGESTAD	0800	0745	2	2	15 (15 bootees)	15
302	<u>Filter Queen on Geese:</u> (Change filters, re-gas as start)	PIERCE	0900	0830	1	-	1	1
303	<u>Cache Removal:</u> Remove to CVE all usable and repairable equipment from cache	BARTH (Communications) one TU 7.6.4 man one of Coe's men	0900	0830	1	-	5	5
304	<u>Personnel Landing Repair:</u> Monitor for ship's work- ing party at Engebi personnel landing	PIERCE	0900	0815	1	1	?	3
305	<u>Ship Monitor:</u> Monitor hangar deck and flight deck	SCOVILLE		0830	1	-	-	-
306	<u>CVE Evaporators:</u> Monitor evaporators (morning & evening)	SMITH HOFFMAN		0900 1600	1	-	-	-
307	<u>Biological Samples:</u> Accompany Capt. Draeger to recovery samples	O'LEARY	0900	0830	1	1	4	4
308	<u>BuY&D's Photo:</u> Containing photography of BuY&D's structures plus collection of film badges	GOODSELL	0900	0830	1	1	6	6

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
309	<u>Drone Clearance:</u> Clearing planes for manned flight to Kwaj. to Eniwetok	MALLORY DAUGHERTY MASON	On Station				Previously issued	
310	<u>S.W. Perimeter Survey:</u> From Eniwetok west to end of Atoll and return with CIC patrol	GAINES	On Station				Previously issued	
311	<u>Chemical Corps Recovery:</u> Recovery of equipment and preparation for next test	SCOVILLE	0900	0830	1	1	4	4
312	<u>Zero Island Survey:</u> Resurvey of zero island Dirt samples at 400 and 600 yds.	MORTON COOK CULLEN WOY	0900	0830	-	4	4	4
313	<u>Water Survey:</u> Resurvey of water to north and west of CVE (FLYNN & OLDFIELD to plot)	OLIVARI	0930	0900	2	1	1	2
314	<u>Filter Queen Samples:</u> Filter exchange on AGC-7, AV-4, AV-5 and CVE-115	SHAPPACHER	0900		-	-	-	-
315	<u>CVE Duty Decontamination:</u>	LONG (Morning) STEED (Afternoon)		0815	1	-	-	-
316	<u>Small Boat Decontamination:</u> Decontamination small boats tied up to CVE	COE HERMANSON	1000	0945	1	-	-	-
317	<u>Motion Picture Party:</u> Roche and 5 Photographers	WOODS	1100	1045	1	1	8	8

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
318	<u>Animal Tank Recovery:</u> Capt. Draeger, Johns and Langer	O'LEARY	1330	1315	1	1	5	5
319	<u>2nd BuY&D's Photography:</u>	GOODSELL	1330	1315	1	1	6	6

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7.6 MONITOR MISSIONS, APRIL 19, 1948

No.	Party	Monitor	Time Out	Time Issue	Instruments			0,2
					GM	IC	F.B.	
401	<u>IAJ-8:</u> 15 men & 1 photographer arrive CVE at 1315. 3 monitors required (3 men boat crew)	PHILLIPS MATHER SPEICHER	1315	1245	3	3	22	20
402	<u>IAJ-4 and IAJ-12:</u> 11 men arrive CVE at 1315. One monitor	ELDRIDGE	1315	1245	1	1	13	13
403	<u>Photographic Party (TG 7.1):</u> 4 photographers requiring one monitor arrive CVE at 1315	CULLEN	1315	1245	1	1	6	6
404	<u>TG 7.1 Staff Party:</u> Two men requiring one monitor arrive CVE at 1315. Put danger signs on crater samples (see VANDERGRIFT)	ASHLEY	1315	1245	1	1	4	4
405	<u>VIP Party #1:</u> 13 VIP's arrive CVE at 0845 to Geese and back at CVE 1130. To eat on CVE. One monitor	COE	0845	0815	1	1	22	18
406	<u>VIP Party #2:</u> BACHER and BRADBURY to fly in helicopters over Geese about 1330. Two monitors	STONE COE	1330	1300		2	6	6

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
407	<u>VIP Party #3:</u> ADM. WELLINGS, GEN. BARKER, COL. SANDS, CAPT. HAIGHT, COL. COONEY, CAPT. ANDERSON arrive CVE at 1330. To go to Geese by boat. One monitor. (4 man boat crew)	COOK	1330	1300	1	1	8	8
	Return by helicopter	ASHLEY						
408	<u>Zero Island Survey:</u> 4 Monitors to repeat survey of Engebi	FRANKS OLIVARI FLYNN WOY	0845	0815		4	6	6
409	<u>BuY&De Party:</u> 3 men to measure struc- tures to leave CVE at 1400. 1 monitor to work at 2500 ft. from tower	BARTH	1400	1330	1	1	6	5
410	<u>Biological Samples Recovery:</u> To accompany CAPT. DRAEGER on recovery of samples. One monitor	HERMANSON	0900	0830	1	1	3	3
411	<u>Drone Plane Clearance:</u> Clearance of drones for manned flight to Kwaj. from Eniwetok	MALORY DAUGHERTY MASON	On Station				Have Instruments	
412	<u>Hot Crater Survey:</u> COONEY & HOUGHTON in jeep using located by person- nel in low intensity area. (1.0 to 2.0 r. mission)	COONEY HOUGHTON	1400	1330		2	6	6

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
413	<u>Instrument Test Mission:</u> Dr. ANDREWS and party of 4 to test instruments at low intensities.	ANDREWS	1400	1330	From Lab. 6		6	
414	<u>CVE Deck Monitors:</u> To monitor flight deck and hangar deck	SCOVILLE	When convenient		1			
415	<u>CVE Evaporator Check:</u> Twice daily check	SMITH	When convenient		1			
416	<u>Engebi Filter Queen:</u> Check, change filter & personnel landing repair monitor	PIERCE	0900	0830	1	1	4	4
417	<u>Ship Filter Queens:</u> Check and change filters on AGC-7, AV-4, AV-5 and CVE-115 and monitor decks	SCHAPPACHER	1000	0930	1			
418	<u>CVE Duty Decontamination:</u> Duty monitors to serve on quarterdeck in relays	VANDERGRIFT LONG		0830	1			
419	<u>AGC-7 Evaporator:</u> Checks	KIMBEL	On Station		Previously issued			
420	<u>IAJ-14:</u> - 5 men	GOODSELL	0930		1	-	6	6
421	<u>To Recreation Island:</u>	O'LEARY	0930		1	1	1	1
422	<u>Guam Monitoring:</u> (Fitzwilliam)	KNOWLTON	1445	1430	1	1	1	1

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7.6 MONITOR MISSIONS, APRIL 20, 1948

No.	Party	Monitor	Time Out	Time Issue	Equipment			O.2
					GM	IC	F.B.	
501	TG 7.1 Party: Equipment recovery outside 600 yards	None						
502	Crater Sample Disposal: Dump, in deep water, samples and piece of coax cable from Geese. Two monitors. (See Campbell)	VANDERGRIFT WOY	0900	0830	1	1	3	3
503	Zero Is. Survey: Repeat Zero Is. survey in same manner as on proceeding days. Four Monitors. Check filter queen and change filter	FRANKS STEED PIERCE KING	0900	0845	4	4	4	4
504A	Monitor Officer Guard: Two Monitors on beach all day. One remains at personnel landing and one is a roving monitor. The 12½ mr/hr line. AM	COE ASHLEY	0745	0715	2	2	50	4
504B	Same PM	COOK CULLEN	1200	1130				
505	TU 7.6.6 Inst. Removal: Tech. Meas. Unit to trans- port equipment from Engebi to Acman by DUKW and LCM	SCOVILLE PEARSON	0900	0845	1	-	15	2
506	Water Survey: Complete water survey in one boat by a monitor. To be briefed by LCDR OLDFIELD.	OLIVARI	0915	0900	1	-	2	2

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
507	Buoy Removal, LCM Arrives at CVE at 0930 to embark monitor and will remove special AVR channel buoys. One monitor	GAINES	0930	0900	1	1	10	2
508A	Biological Sample Recovery. Contamination of sample recovery, by Capt. DRAEGER	SPEICHER	0930	0900	1	1	4	4
508B	Same P.M.	ELDRIDGE						
509	Helicopter Photography Mission: Two planes each with monitor for Geese	FLYNN MATHER	0945	0915	-	2	6	2
510	Ship filter queen check: Checks and changes filters on AGC-7, AV-4, AV-5 and CVE-115, and also monitors weather decks.	SCHAPPACHER	1000	0930	1	-	-	-
511	Evaporator check on CVE-115.	SMITH	1000 and	1700	1	-	-	-
512	Evaporator check on AGC-7.	KIMBEL	When convenient				Has instrument	
513	Courier trip to Eniwetok	GOODSELL	0800					
514A	CVE duty monitors AM	LONG	-	0900	1	-	-	-
514B	Same PM							

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UNCLASSIFIED

5001951

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>P.B.</u>	<u>O.2</u>
515	Medical Conference HOUGHTON to leave CVE at 1315 for conference on AV-4	HOUGHTON	1315	-			None required	

STANDBYS:
PHILIPS
WOODS
SMITH

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UNCLASSIFIED

7.6 MONITOR MISSIONS, APRIL 21, 1948

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
601	Engebi Monitor Guard. Two shifts of two monitors each. One monitor stays at Personnel Landing and the other is on a roving patrol. Set up barrel at landing for hot items including coax cable piece at plus 150 yards from landing. Take water.	ELDREDGE FLYNN FRANKS GAINES	0745 1200	0730 1130	1	1	20	4
602	O.C.E. structure inspection. Three men plus monitor to Engebi to continue structure inspection	WOY	0745	0730		1	4	4
603	Zero Island survey. Recheck island survey above 4 mr/hr, including specific readings at blast footings and at striped poles in crater. Two monitors Campbell and Hoffman for flags.	STEED MORTON CAMPBELL HOFFMAN	0900	0830	2	4	4	4
604	Hot Spot Survey. Survey hot spot on N.W. side of island (about 500 yards from Zero). Mark 200 mr/hr line with tape. Two monitors required.	COOK ASHLEY O'LEARY	0900	0830	-	2	2	2
605	Ships Evaporator check. On CVE-115 On AGC-7	SMITH HOFFMAN KIMBEL	AM PM	AM PM	1	-	-	-

Non required on AGC-7

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
606	Ships filter queens. Check and change filters on CVE, AV-4 and AGC and monitor weather decks.	SCHAPPACHER	1000	-	None required			
607	CVE duty monitors. Two monitors on relay for decontamination of personnel	LONG ROSSANO	0900	0830	1	-	-	-
608	Aoman trip. TU 7.6.6 to prepare equipment on Aoman	CULLEN	0900	-	None required			
609	Move filter queen to 200 ft. circle as near down-wind as possible. Replace filter and start and make it work	PIERCE	1300	1245	-	1	1	1
610	4 VIP's to island by helicopter.		0900	0845	-	1	5	5
611	Mr. DeSelm with 17 men.	OLIVARI	1230	1215	-	1	20	4
612	5 VIP's to beach.	HOUGHTON	1330	1236	-	1	6	6
613	Mr. Benson and crew to timing station	None						

Copies to:

- 1 WINANT
- 1 Instrument Lab.
- 1 OLDFIELD
- 1 CAMPBELL
- 1 Photo Lab.
- 3 STONE
- 1 CAMPBELL (for beach monitors)

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7.6 MONITOR MISSIONS, APRIL 22, 1948

No.	Party	Monitor	Time Out	Time Issue	Equipment			0.2
					GM	IC	F.B.	
701	<u>Engebi Monitor Guard:</u> Two shifts of two monitors each one monitor stays on personnel landing and the other is on roving patrol Morning party to pick up hot articles. Afternoon party to take can of paint and paint CONTAMINATED on drum on cable winch and "hot" container at personnel landing.	AM OLIVARI	0745	0730	1	1	50	4
		STEED						
702	<u>Biological Recovery:</u> Capt. Draeger to beach to recover equipment	PHILLIPS	1200	1130	-	-	2	2
		O'LEARY						
703	<u>AGC Staff Trip:</u> Winant and 30 officers AGC and 4 monitors to Engebi for orientation. Clothing for 30 men will go in same boat.	None	0745	-	-	-	-	
		COE	0845	0815	2	2	30	6
704	<u>Yoke AVR Conference:</u> Conference in Fwd Rdy Rm 0830 to orient new AVR monitors in Yoke Day Operations	BARTH						
		SPEICHER						
704	<u>Yoke AVR Conference:</u> Conference in Fwd Rdy Rm 0830 to orient new AVR monitors in Yoke Day Operations	WOODS						
		CULLEN	0830	-	-	-	-	
		McDONNELL						
		ROSSANO						
		COOK						
		BOLEN						
		LONG						
		SHEPPARD						
		MORTON						
		MASON						
		GOODSKILL						

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5001955

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
705	<u>Survey Party:</u> Survey of Tower Tip of island. Plotting of contours from beach in towards tower stumps. 4 monitors on a 0.5 r mission. (500 mr dose) Naval swabs to be taken upon completion of mission	SHEPPARD GOODSELL MASON WOY	1000	0930	-	4	4	4
706	<u>Crater Flag Planting:</u> 3 men to plant flags in crater and take readings every 100' to tower and collect samples at each location. (500 mr mission) Naval swabs to be taken upon completion of mission	SCOVILLE ANDREWS HOFFMAN	1400	1330	-	3	3	3
707	<u>Tank Reconnaissance:</u> Bowman and monitor (Campbell) to make inspection of tank. (500 mr mission)	CAMPBELL	1000	0945	-	MX-6	2	2
708	<u>Filter Queen on Geese:</u> Move filter Queen to about 800' from tower and as near to downwind as possible change filter and start.	PIERCE GAINES	1000	0945	-	1	3	1

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
709	<u>Ship's Filter Queen:</u> Change filters and service filter queens on AGC-7, AV-4, AV-5, and CVE-115. Monitor weather decks.	SCHAPPACHER	1000	0945	1	-	-	-
710	<u>Biological Recovery:</u> Boat to take Capt. Draeger from Engebi to Aoman stopping at two islands on the way.	None	1000	-	-	-	-	-
711	<u>CVE Duty Monitors:</u> Duty monitors on CVE-115	A.M. ASHLEY P.M. FRANKS	-	0830	1	-	-	-
712	<u>Big Ben VIP Trip:</u> Party of 17 from AGC to Engebi, Colonel Grills is Senior Officer. Meet party at Engebi.	COOK DAUGHERTY	1400	1330	-	2	20	4
713	<u>Thumbscrew Officers:</u> 6 officers to Geese. Bootees and gloves required.	Dr. NOLEN	1400	1330	-	1	10	2
714	<u>OGE Party:</u> Arrived on Geese without monitor. 1 monitor from No. 703 assigned.	WOODS	1000	-	Previously issued			

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No.	Party	Monitor	Time Out	Time Issue	GM	IC	F.B.	0,2
801	<u>Engebi Monitor Guards</u> AM: Two shifts of two monitors each. One monitor stays PM: at personnel; the other is on roving patrol. Guards to collect "hot" items and place in "hot" can near personnel landing. Engebi will probably be sprayed with DDT sometime during the day. Guard monitors are to clear all personnel off Engebi prior to the spraying.	SPEICHER DAUGHERTY WOOD	0745 1200	0730 1130	1	1	20 2	4
802	<u>OCE Photographic Party #1</u> Monitor with Linthicum and one monitor in two helicopters to photograph OCE structure displacement. Helicopters land party south of personnel landing and party photographs on foot.	OLIVARI	0815	0800	-	MX6	5	2
903	<u>OCE Photographic Party #2</u> Two photographers by boat to personnel landing to join party in #802 for surface photography.	NONE REQUIRED	0830				None Required (Badges issued by #802 monitor)	
804	<u>Engebi Filter Queen</u> Change filter, service and check filter queen near tower stumps. (Sean PIERCE) SEIGEL and BERNMAN install cascade impactor and make dust test.	CULLEN FRANKS	0830	0815	-	2	4	4
811	<u>OCE Party</u> Monitor to accompany Major DeBardleben and 1 Photographer to 1000' structure	OLDFIELD	1430	1415	-	1	2	4

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<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O,2</u>
805	<u>Ship's Filter Queens:</u> To change filter, service and check filter queens on AGC-7, AV-4, AV-5 and CVE-115. And to monitor weather decks on the same ships.	SCHAPPACHER	0900	0830	1			
806	<u>Ship's Evaporator Check:</u> Monitor evaporators on AGC-7 (Kimbel) and CVE-115 (Hoffman)	HOFFMAN KIMBEL			1			
807	<u>CVE Duty Decontamination Monitors</u> Two monitors on shift as duty monitors on the CVE quarterdeck.	AM: PIERCE PM: GAINES		0815 1230	1 1			
808	<u>N.W. Perimeter Island Survey</u> Survey first four islands to the west of Engebi. DUKWs with CIC personnel will pick up monitors at ship.	HELGESTAD ASHLEY MORTON	0900	0830		2	20	4
809	<u>Mr. DeSelm's Party</u> Party of 17 arrive Geese Landing at 1315. Monitor to go to Geese on boat taking P.M. Monitor Guards to island. Monitor take sufficient booties and gloves for party.	STEED	1200	1145		1	20	2
810	<u>Biological Party</u> Capt. DRAEGER to Engebi and Aoman.	NONE	0830					

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7.6 MONITOR MISSIONS, APRIL 24, 1948

No.	Party	Monitor	Time Out	Time Issue	GM	IC	F.B.	O.2
901	<u>Engebi Monitor Guard.</u> One bull monitor and four on duty on Engebi from 0800-1700. Supervises safety of all operations on Engebi. Place film badges on all personnel inside 550 yds. Require gas masks for all dust producing operations inside 550 yds. To take water and food; To take booties, masks, caps, clothing, for 40.	SMITH PHILLIPS STEED BARTH GAINES	0715	0700	3	3	40	4
		OLIVARI PIERCE FRANKS CULLEN O'LEARY	1145	1100				
902	<u>Engebi Filter Queen.</u> Continue Dust Tests.	BRENNAN	1145	0900	1	-	2	2
903	<u>Ship's Filter Queen.</u> To service filter queens on AGC-7, AV-4, AV-5 and CVE-115 and monitor weather decks.	SCHAPPACHER	0900	0845	1	-	-	-
904	<u>CVE Duty Monitors.</u> Two monitors on shift for decontamination.	AM: WCY		0815	1	-	-	-
		PM: VENTERS		1215	1	-	-	-
905	<u>DD Monitor Briefing.</u> Meeting of all monitors scheduled for jobs on DDGs at 0900 in forward ready room.	OLIVARI MATHER MORTON SPEICHER VENTERS FRANKS ROSSANO						
		STEED HELGESTAD MCDONNELL O'LEARY PIERCE CULLEN						

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7.6 MONITOR MISSIONS, APRIL 25, 1948

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
1001	<u>Engebi Monitor Guard</u> One senior monitor and four monitors on duty on Engebi from 0800 to 1700. Supervise radiological safety of all operations on Engebi. Place film badges on all personnel going inside 550 yards. To take boots, caps, and masks for 40 persons. To keep roster of all personnel on island, including: name, rank, organization, officer in charge and mission.	COOK (Chief) ASHLEY MASON SPEICHER KNOWLTON GOODSELL (C) WOODS MOSS MORTON NOLAN	0730	0715	2	2	50	10
1002	<u>Tank Removal Monitors</u> 3 monitors to assist BOWMAN in recovery of his tank from crater. To work in shifts with 8 LAJ-2 men. Take first aid kit. Take clothing for 8 people.	HOUGHTON STONE MCDONNELL	0730	0715	-	3	12	12
1003	<u>CVE Duty Monitor</u> 2 monitors on shift for decontamination of all personnel returning from Engebi	AM: ROSSANO PM: WOY	-	0815 1215	1 1	- -	- -	- -
1004	<u>Ship's Filter Queens</u> To service filter queens on AGC-7, AV-4, AV-5, CVE-115 and monitor weather decks.	SCHAPPACHER	0930	0915	1	-	-	-
1005	Dead Duck Recovery 1330	SMITH OLDFIELD ANDREWS SCOVILLE OLIVARI MURPHY	0900	0845	1	-	-	-

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7.6 MONITOR MISSIONS, APRIL 26, 1948

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
1101	<u>Engebi Monitor Guard</u> One senior monitor and 3 monitors on duty on Engebi from 0815-1700. Supervise radiological safety of all personnel on Engebi. Place film badge on all personnel in the 550 yds. To keep roster of all personnel on Engebi, including name, rank, organization, officer in charge and mission.	AM: OLIVARI FRANKS O'LEARY PHILLIPS PM: SMITH KNOWLTON STEEL GAINES	0745	0730	2	2	30	10
1102	<u>CVE Duty Monitor</u> Two monitors on shift for decontamination of all personnel returning from Engebi.	AM: VENTERS PM: ROSSANO		0815 1215	1 1			
1103	<u>Acman Island Survey Rehearsal</u> Party to Acman to place more stakes and go over the old stakes. To make detailed plans of Y plus 1 survey	SMITH SHEPPARD COE GOODSELL WOY WOODS	0830				Stakes as required	
1104	<u>Water Survey Rehearsal</u> Briefing in Forward Ready Room at 0830. To use two boats at 0930 for practice in transmission and plotting of boat data.	BRENNAN VICARS KNOWLTON BARTH WOODS STONE HOUGHTON	OLDFIELD	0830			SCR-300's as required	
1105	<u>Ship's Filter Queens</u> To service filter queens on AA-7, AV-4, AV-5, CVE-115 and monitor weather decks.	SCHAPPACHER	0930	0915	1			

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7.6 MONITOR MISSIONS, APRIL 27, 1948

<u>No.</u>	<u>Party</u>	<u>Monitor</u>	<u>Time Out</u>	<u>Time Issue</u>	<u>GM</u>	<u>IC</u>	<u>F.B.</u>	<u>O.2</u>
1201	Current Survey	BARTH MOSS WATERS WOODS	0830					
1202	Island Survey Party	SMITH SHEPPARD COE GOODSELL WOY WOODS	1330					

NO CVE MONITOR.

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OPERATIONS SCHEME FOR Y-3 DAY AND EARLIER

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
10	Y-4	Lt BARCOCK	On station with LST 219	B	On station at Ujelang with LST 219 as monitor. To return by plane via Kwajalein on Y+2.
19		ETC Mademann	On station	A	At Kwajalein as instrument repairman-Remain until Y+7.
15	Y-8	Major Mather LCDR Eldredge	ATC Plane	C	To Kwajalein for training as air monitors. To return to CVE on Y-4.
12	1300 Y-3	Major Rossano (DBR-875 Tucker)	LCI (Ferry Able)	D	Transfer to U.S.S. TUCKER from CVE as D' monitor. To return on Y+4.
12	0730 Y-3	Capt. Helgestad (DE-696 Spangler)	LCI (Ferry ABLE)	E	To Gardiner's Bay for transfer to U.S.S. SPANGLER as DD monitor. To return on Y+4.
12	0730 Y-3	Capt. Steed (DB-697 George)	LCI (Ferry ABLE)	F	To Gardiner's Bay for transfer to U.S.S. GEORGE as DD monitor. TO return on Y+4.
20	Daily at 0845 prior to Y-2	Capt. Kimbel Capt. Mallory Lt. Flynn Dr. Nolan YNC Harmon	CV5-Boat	G	To man Radsafe Center on AGC-7. Remain on AGC-7 after Y-2.
	Y-3	Lcdr. Campbell Lt. Huckel			Set up cache

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OPERATIONS SCHEDULE FOR Y-2 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS</u>	<u>MISSION NO.</u>	<u>OPERATIONS</u>
19	0800	Schomacher XXXXXXXX XXXXXXXX		H	To AGC-7, AV-4, AV-5 and CVE-115 to service filter queens.
19	0800 1700	Dr Scoville Capt Draeger Cdr Hoffman Cdr Langer Lt Vicars HMC Johns ME3 Pearson Lcdr Erickson	LCM XXXX	I	To zero island to prepare Test equipment for detonation.
19	0900	Cdr Andrews Mr Seigel	LCVP	J	To test LCM (LAME DUCK) and return.
2	1300	Lcdr Vandergrift Lt Phillips W/Sgt Long W/Sgt Daugherty R/2 Hall Ens Ashley Lt Venters Lt Pierce	LCM (DILUTION -ZERO)	K	Via LCM to Eniwetok and various monitor missions during test. Upon arrival of LCM at Eniwetok, LCM to report to boat pool and boat crew to U.S.S. CONSTOCK. LCM delivers Lt Venters to U.S.S. FICKENWAY APA-222. Deliver Maj. Mather and Lcdr Eldredge to U.S.S. GARDINER'S BAY AVP-39.
8 24 16 15	0730 0730	Maj Mather Lcdr Eldredge Lt. Blakmore Capt Franks	LCI LCI		
9	1400	VIPs McLennan & White	LCI & PFB	L	To AV-5 as topside monitor.
22	1430	LtCol Houghton Dr. Whipple	PPB	M	VIPs arrive Aoman via LCI and are transferred to CVE.
18	1900			N	To AV-4 to spend night and participate as disaster party on Y-1 operations.

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OPERATIONS SCHEDULE FOR Y-1 DAY

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<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
18	0530	LtCol Houghton Dr Whipple	AV-4 Boat	O	Houghton and McDonnel from AV-4 to ZERO island. Proceed to tank reventment and remain there until 1130. TG 7.1 vehicle will be available for their use.
19	0800	Capt Draeger Cdr Hoffman Lt Vicars HMC Johns	LCVP	P	T.U. 7.6.6 party to ZERO island Place film badges, biological samples and start collective protector.
22	0830-1100	VIPs	FPB	Q	To AGC-7 for VIP briefing.
20	0830	Dr Scoville Capt Knowlton Dr. Nolan & 2 radiomen	IFB	R	To AGC-7 to join Radsafe Center and remain after detonation.
19	0900	Cdr Andrews Mr Seigel Cdr. Smith	LCVP	S	To test LCM (LAME DUCK) and Rujuru to start collective protector and cascade impactors.
	1030	Cdr Winant	IFB	T	To AGC-7 to attend staff conference.
19	1045	Cdr Andrews Mr Seigel Cdr. Smith	PPB	U	From LCM (LAME DUCK). To CVE with Andrews and Seigel.

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OPERATIONS SCHEDULE FOR Y-1 DAY (CONT'D)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
21	1145	CAFT Draeger Cdr Hoffman Lt Vicars HMC Johns	LCVP	X	Returns TU 7.6.6 party to CVE with Houghton from disaster party. Jeep placed on LCVP prior to 1100. On return LCVP and jeep brought aboard CVE, via AGC-7, where Vicars is debarked.
18		1stCol Houghton Dr Whipple TG 7.6 Jeep			
	1300	Cdr Winant	PPB	Y	Returns Winant from staff conference on AGC-7 to CVE. On return PPB brought aboard CVE.
1.	1300	Lcdr King	ATC C-47	Z	Arrives Eniwetok from Kwajalein to remain after detonation as C-47 radsafe survey plane monitor.
4.	1600	Major McDonnell Dr Korton Capt Bolen 1stSgt Mason Major Goodsell Lt Speicher	AV-5 Boat or 7.6 PPB	AA	Party for Parry and AVR's picked up from CVE at 1600 and taken to Parry Island. Monitors to proceed from Parry on various assignments.
5. 3.	1745	Cdr. Winant			T. AGC for conf.

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OPERATIONS SCHEDULE FOR Y DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>TRANS.</u>	<u>MISSION NO.</u>	<u>OPERATION</u>
4	0400	Maj McDonnel Dr. Morton Capt Bolen 1st Sgt Mason	AVR-38	AB	Board AVR-38 on return of this boat to Parry Island.
5	0400	Maj Goodsell	AVR-53	AC	Board AVR-53 on return of this boat to Parry Island. Remain on board for air/sea rescue.
	H (approximate time of detonation)				
4	H plus 10 min.	Maj McDonnel Dr. Morton Capt Bolen 1st Sgt Mason	AVR-38	AD	Leave Parry Island for ZERO Island. Arrival about 0600.
				AE	1st Sgt Mason remains aboard AVR-38.
				AF	Monitor land cable winch.
				AG	Monitor operation at Gamma stations. B & A.

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<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
7	H plus 10 min.	Maj Cook Maj Sheppard	Heli- copter	AM	In helicopter to take-off from CVE and land on Zero Island near winch.	U
				AI	Clear landing of other helicopters.	
				AJ	Monitor for land cable party. Return to CVE-115 by AVR #38.	
8	H plus 20 min.	Ens Ashley	Photo. boat	AO	Leave Eniwetok for Coral Head Photo Tower to assist in recover of film and return to Eniwetok.	U
1	H plus 30 min.	LCdr King	C-47	AN	C-47 mission starts aerial survey on orders of Commander Air Forces. (Big Ben)	R
2	H plus 2 hr.	LCdr Vandergrift M/Sgt Daugherty Lt Phillips M/Sgt Long Lt. Stinson	None	AL	Monitor drone planes upon landing at Eniwetok. Filter units removed and disposed of by IAJ-2 personnel. Clear island.	U
				AM	Watch for fall-out	

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OPERATIONS SCHEDULE Y-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
6	H plus 3 hr.	Lt Woy Lt Cullen	LCM (Tank)	AQ	Board LCM from CVE proceed to Zero Island. LCM beaches near tank revetment. (Bowman flies in helicopter from Eniwetok to Aoman on completion of drone filter removal.)	U
			(AEC Boat)	LR	Lt Woy returns to CVE by boat with crater sample to CVE-115.	
				AS	Lt Cullen returns with crater samples to Eniwetok.	
				AT	After samples are placed in storage at Eniwetok Lt Cullen returns to CVE.	
25	H plus 3 hr.	Maj Moss		AU	Monitor in second helicopter, monitoring for tank guiding helicopter.	U
9	H plus 1 to H plus 4	Capt Franks		AV	Monitor landing by helicopter and boat of samples from Zero Island on AV-5.	U
11	H plus 1 and later	Capt Gaines Lt O'Leary		AW	Monitor returning helicopters, personnel, and land samples on CVE.	R

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OPERATIONS SCHEDULE Y-DAY (Cont'd)

<u>RADSAFE</u> <u>PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
16	H plus 20 min.	Lt Pierce	L-5	AX	Surveys Runit by L-5 from Eniwetok. L-5 in company recovers technical films from Runit Photo Tower. After leaving Runit proceeds to Parry where Runit clearance is radioed to AGC-7.	U
21	H plus 3 hr.	ICdr Olivari	CVE-115 boat	AX	Goes aboard ISB-472 as monitor off Loman remains over night or until relieved.	R
13	When directed by CTG 7.6	Cdr. Smith ICdr Smith Joist Lt Barth Joist ICdr Smith Baker	CVE-115 Able AZ		Lagoon re-entry patrol to debark and precede CVE-115 into Loman Anchorage until anchored and then patrol anchorage, and collect water sample. At H + 7 place filter queen in operation near Gamma B Station.	R
13	When directed by CTG 7.6	Maj. Brennan ICdr Smith Lt Woods Bumstead	Bumstead ICdr Smith Able ICdr Smith Baker	BA	Lagoon re-entry patrol to debark from CVE upon anchoring and patrol to W and NW in area of possible fall out.	R
14	When directed by CTG 7.3	Lt Vicars Capt Knowlton	HariKari Able BB HariKari Baker		Lagoon re-entry. Boats from AGC-7 precede column into Runit anchorage.	
4	H plus 4 hr.	Maj McDonnel Maj Sheppard Dr. Morton Capt Bolen 1st Sgt Mason Maj Cook	AVR #38	BC BD	Returns to CVE via AV-5. 1st Sgt Mason remains aboard AVR #38 and accompanies it for air/sea rescue.	
23	H plus 5-6 hr.	ICdr Coe Lcdr. Smith	AV-5 Boat	BE	LAJ-4 and LAJ-5 Mission to timing station U and Gamma B from CVE.	U

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OPERATIONS SCHEDULE Y-DAY (Cont'd)

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
23	H Plus 8 Hr.	Lcdr Coe LCdr Smith	AV-5 Boat	BG	Return to CVE from LAG-4 & L-5 mission to zero islands.	
2 (Canceled)	1300	Lt O'Leary	(Canceled) Boat	BH	Boat to CVE to pick up O'Leary, to do AEC phot recovery.	
16	1400	Lt. Pierce	L-5	BI	Re-checks Runit by L-5.	
9	1600	Capt Franks	CVE Boat	BJ	Returns to CVE from AV-5.	
16	1600	Lt Pierce	Dalmation Zero	BK	Returns to CVE by Dalmation from Eniwetok; personnel landing via Farry Island landing. Leaves Eniwetok not later than 1600.	
8		Ens Ashley Lt Cullen				
6						
3	1600	Lt Speicher	Dalmation Zero	BN	Returns to CVE by Dalmation from Farry Island.	
5	1600	Major Goodsell 1stSgt Mason		BO BP	Return to CVE from AVR#53 and AVR#38 after securing of air sea rescue detail.	
4						
21	1900	Lcdr Coe Lcdr Olivari	CVE-115	BQ	Goe relieves Olivari on LCT-498 off-noman.	
	1400	Lt O'Leary	TG 7.6	BIA	With Capt Dregger to make bird count	
	2000	Cdr Hoffman Cdr Smith				
	1400	Lt Barth	LCVP	BQC	Evaporator check Lagoon Patrol	
	1500	Lt Vicars Dr Knowlton Capt Franks				
	2000	Lt Vicars			Return to CVE 115 CVE Rainout monitor	

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OPERATIONS SCHEDULE Y PLUS 1 DAY

<u>RADSAFE PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
101	0830	Cdr Smith Maj. Sheppard Lt Woy	LCVP	BR	Survey operations on Biijiri (ABLE Group).	H R
101	0830	Lcdr Coe Maj. Goodsell Lt Woods Sgt. Mason	LCVP	BS	Survey operations on Roman (BAKER Group).	R
26	0700 1700	Maj. Stone Lcdr Oldfield Lt Nuckel	None	BT	Rej- CVE Operations Group	
	1400	Ashley	Helicopter		Monitoring group will return when mission is accomplished. (About 1030). Deliver copy of Chart to Cooney (AGC-7) and Froman (AGC-7) (One each) as soon as poss- ible).	
	1300	Woods	FPB		With Draeger to find biological samples Courier of charts to AGC-7	

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OPERATIONS SCHEDULE Y PLUS 1 DAY

<u>RADSAFE</u> <u>PARTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION NO.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
104	0830	Capt Gaines	LCVP	CP	CHARLIE Group	R
105	0830	Houghton Knowlton Ashley	LCVP	CD	DOG Group	
103	0830	Knowlton Lt Col Houghton Lt Speicher	BULSTEAD BAKER	CS	To patrol lagoon anchorage near Aoman and Runit as directed.	R
107	0830	8 air monitors--air (CTG-7.4)		CF	air monitors for drones. To assist Vandergrift in clearing drones and to accompany drones back to Kwaj- alein.	
		Major Kather Lcdr Eldredge		CG	Kather and Eldredge to assist Vandergrift on Y plus 1.	R
	0800	None	LCVP	CH	Harikari leaves Eniwetok to return to CVL.	
22	0830	VIPs (Fm:CVE)-CVE Boat		CI	To AGC-7 for briefing @ 0900 on test results.	
21	0700	Lcdr Gee Norton	CVE Boat	CJ	Return Lcdr Gee from LCV 472 to CVE-115.	
11	0900 1700	Knowlton Knowlton Moss	None	CK	On CVE as duty decontamination monitors.	
	0800	Campbell			CVE evaporator check	
	0930	Kimbell	LCI		VIPs to Aoman	
	1400	Scoville Andrews Siegel Vicars			To Lame Duck and Rujora	

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OPERATIONS SCHEDULE Y PLUS 1 DAY (Cont'd)

<u>RADSAFE</u> <u>P. RTY NO.</u>	<u>TIME</u>	<u>MONITORS</u>	<u>BOAT</u>	<u>MISSION No.</u>	<u>OPERATION</u>	<u>PRIORITY</u>
24	0900	Lt Venters		CL	Return to CVE from USS PICKAWAY as early as practicable.	
20	0800	Lt Flynn Lt Vicars Capt Knowlton	LCVP	CM	To return to CVE from AGC-7.	
	1300	Maj. Cross Olivari Capt. Stock Smith Capt. Rankins Mason Venters		CN	On CVE for LAJ-8 missions.	
	0900 1700	Lt Barth Capt Bolen		CO	In reserve for urgent missions which may arise.	
	1000	Maj McDonnel Lt Cullen Lt O'Leary Lt Pierce Hoffman	PPB	CP	By boat to Gardiners Bay to be placed aboard destroyers. To arrive Gardiners Bay prior 1400.	
	2000				CVE Evaporators	
	Y / 4	Maj Rossano Capt Helgestad Capt Steed Maj McDonnel Lt O'Leary Lt Pierce Lt Cullen Lt Barth			To return to CVE-115 from DD's and DE's.	
	0900				With Erickson and Linthicum to Bi'jiri and Rojoa	
	1000	Schappacher		- 12 -	To dust collectors, to check decks	
	1300	Speicher			LAJ-5 to Elaine	

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EQUIPMENT ISSUE ON YOKE PLUS ONE DAY

<u>No.</u>	<u>Party</u>	<u>Monitors</u>	<u>Time Issue</u>	<u>Time Out</u>	<u>GM</u>	<u>IC</u>	<u>FB</u>	<u>0.2</u>
101	Island survey (Bijiri ABLE Group)	CDR SMITH MAJ SHEPPARD LT. WOY	0745	0830	1	3	3	3
101	Island survey (Aoman, BAKER Group)	LCDR COE MAJ GOODSELL LST LT WOODS	0745	0830	1	4	4	4
102	ERICKSON & LINTHICUM to count structure	LT BARTH	0830	0900	1	1	3	3
103	Boat Patrol	LT COL HOUGHTON LT SPEICHER	0800 0800	0830 0830	1 1	1 1	7 5	2 2
104	Charlie Group	CAPT GAINES	0800	0830	1	1	4	2
105	Dog Group	ENS ASHLEY	0800	0830	1	1	4	2
11.	CVE Duty Monitors	DR. MORTON MAJ MOSS	0815 1145		1 1			
12.	Destroyer Monitors	MAJ MC DONNELL LTJG O'LEARY LT CULLEN LT PIERCE	0830 0830 0830 0830	1000 1000 1000 1000	3 2 2 2		6 6 6 6	3 (Charger) 3 (Charger) 3 3
	Reserve Monitors	CAPT BOLEN LCDR SMITH	0845 0845			1 1	6 6	3 3
	LAJ-8 Monitors 300 mr mission	LCDR OLIVARI CDR SMITH LST SGT MASON LT VENTERS	1100 1100 1100 1100	1300 1300 1300 1300		1 1 1 1	4 4 4 4	2 2 2 2
	LAJ-5 Monitor	LT SPEICHER	1100	1300	1	1	5	5

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