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Vol. 51

BROKEN ARROW

Palomares, Spain

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#133

~~DECLASSIFICATION SCHEDULE~~

B-52 Empennage—Right Side

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The recent Broken Arrow accident, over Spain, serves as a grim reminder of the need for eternal vigilance of nuclear safety practices and preparations for any eventuality. This article provides valuable information that may be used as a guide for all echelons of command for their review of procedures and preparations.

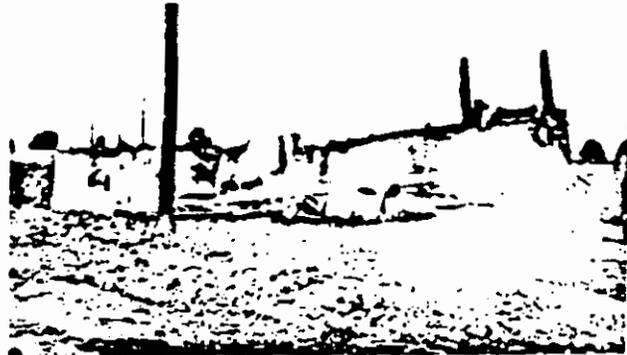
Palomares, a small remote community on the Spanish Mediterranean Coast, will long remember the date 17 January 1966 when a B-52 bomber and a KC-135 tanker collided high overhead. Aside from interrupting the quiet existence of the residents of Palomares, this mid-air collision changed the Spanish policy of United States aircraft overflights, and threatened the U. S. Air Force airborne alert posture.

The aircraft involved were part of a formation of two B-52s and two KC-135s using the Saddle Rock Refueling Area. The weather was clear with winds from the NNW at 60 knots, 50,000' to Westerly at 20 knots on the surface. Aircraft wreckage was strewn over a wide area, portions of the B-52 fell off-shore.

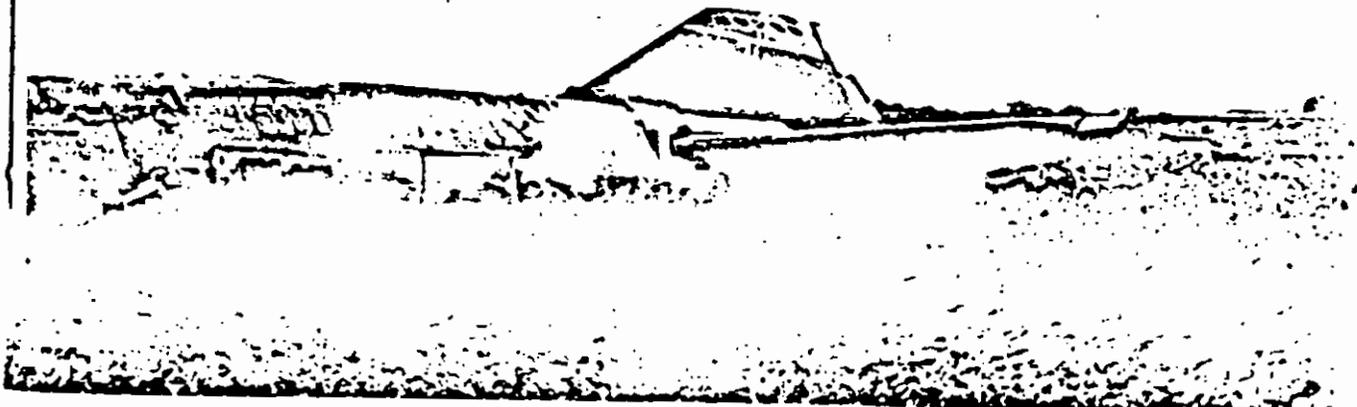
The initial Apex Beeline report of a probable aircraft accident was made by the 16th Air Force Command Post at 1040Z. Confirmation of the accident was forwarded by 16th Air Force at 1122Z. The 68th Bomb Wing at Seymour-Johnson AFB, North Carolina, home base of the B-52, confirmed that four MK28 FI weapons were aboard the aircraft.



B-52 Wreckage—Left Wing—No. 1 and 2 Engines



B-52 Fuselage—Left Side



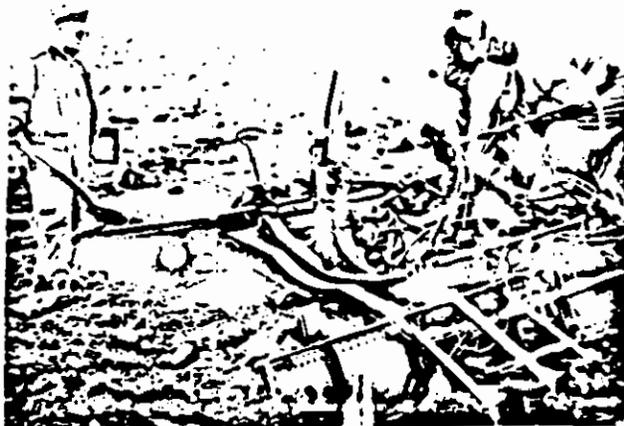
B-52 Empennage—Left Side

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B-52 Bomb Rack

Maj Gen Delmar E. Wilson, Commander of the Air Force, Torrejon AB, Spain, proceeded immediately to the site with a Disaster Control Team. Late the same day, a team from the 7410th EOD Squadron, USAFE, was airlifted to the scene. The SAC Disaster Control Team, commanded by Maj Gen A. Beck, proceeded from SAC Hq. Maj Gen William I. Campbell requested MAC to divert a C-135 to Kirtland AFB, New Mexico, where the Director of Nuclear Safety, Col W. E. Gernert, and a team of atomic experts from the U. S. Air Force Directorate of Nuclear Safety, Los Alamos Scientific Lab, Atomic Energy Commission, Sandia Corp, and Defense Atomic Support Agency were airlifted to Torrejon AB. They were accompanied by Col H. W. Ritter and Mr. Sidney Berman, representatives of Flight Safety.

The weapons were numbered in the order in which they were discovered. They had been positioned in the MHU-20C as follows: Number 1, upper left; number 2, upper right; number 3, lower right and number 4, lower left.



Aircraft Wreckage Staging Area

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WEAPON NO. 1

(S) Weapon No. 1 was located in a terraced, cultivated area about 1 mile southeast of the village of Palomares and several hundred yards from the beach. This weapon was essentially intact. The tail closing plate tore off during breakup of the B-52, thereby deploying the pilot chute. The bomb nose had a 9-inch gash and was depressed slightly inward from impact. Three of the four fins were torn away. The ready-safe switch was found indicating "Safe"

The weapon loading lugs were still engaged in the MB-3A release rack mechanism.



Impact and Recovery Area of No. 1 Weapon



Weapon No. 1 with MB-3/A Bomb Rack Attached



Weapon No. 1 "Ready Safe" switch in safe position



Weapon No. 1



Weapon No. 1 with MB-3/A Bomb Rack attached

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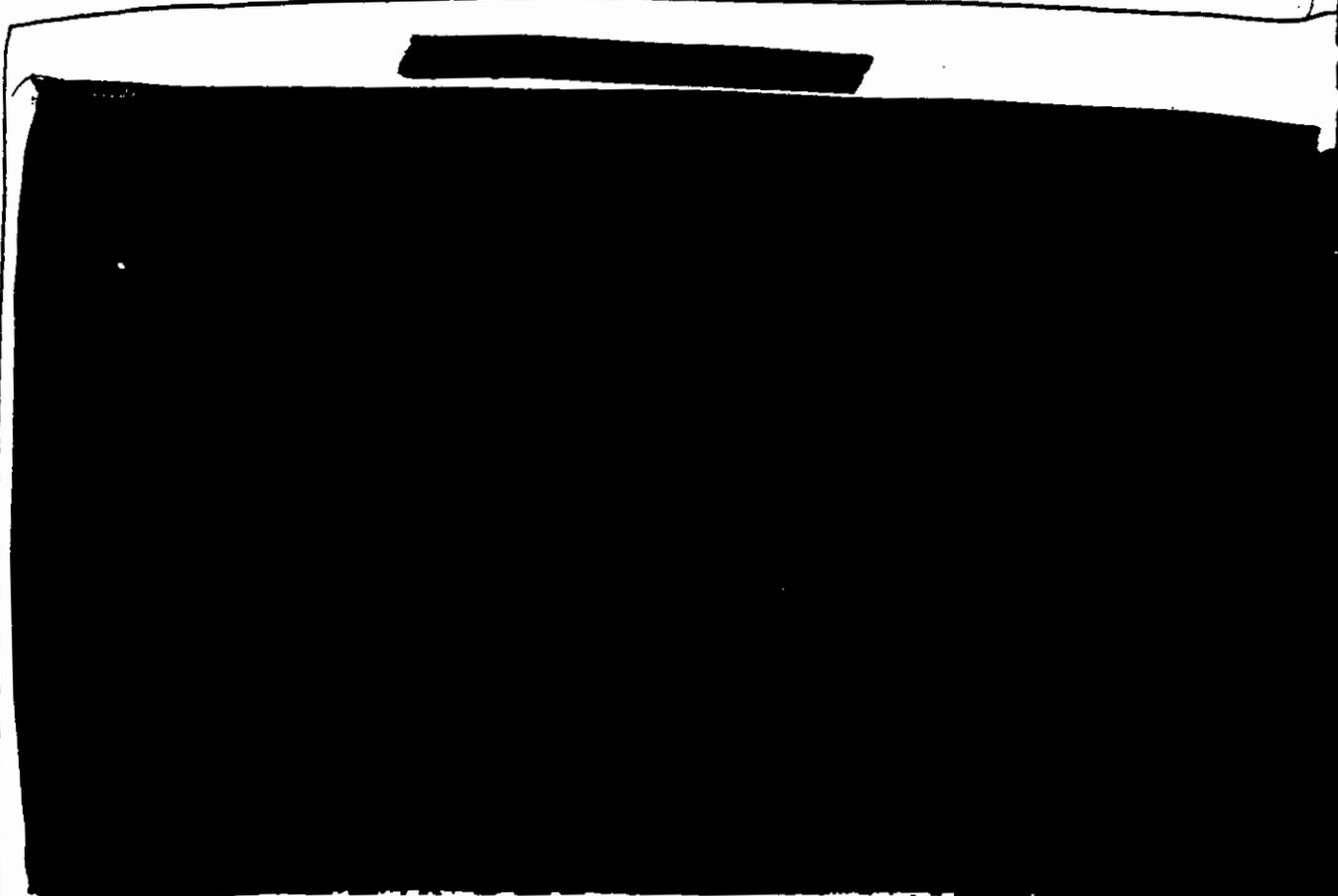
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Crater of the impact area of weapon no. 2

WEAPON NO. 2

[REDACTED] Weapon No. 2 was located in rolling hills about 1 mile west of Palomares. The high explosives (HE) had experienced a low order detonation. The bomb secondary was found in a crater about 20 feet in diameter and six feet deep. A damaged but intact reservoir was found 25 feet from the crater. The broken afterbody and parapack were found about 100 yards from the impact point. The Mild Detonating Fuze (MDF) had functioned, presumably on impact, and the pilot chute was spilled. The main chute was out of the ruptured afterbody case; however, it was still in the chute bag. Firing components and quantities of unburned HE were recovered in small pieces. There was plutonium contamination in the area. No tritium indication was obtained with T-290 tests.



Weapon No. 2 after-body and parachute

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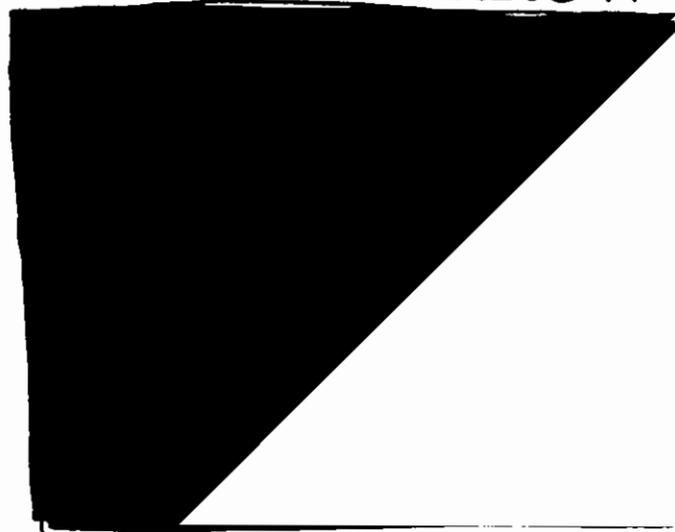
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WEAPON NO. 3

Weapon No. 3 was found in a cultivated area on the eastern edge of Palomares. The HE in this weapon also experienced a low-order detonation. Quantities of unburned HE were recovered. The secondary was in a crater which measured about 10 feet in diameter and 3 feet deep. The smashed reservoir was found approximately 500 yards from the impact point. The afterbody was fairly intact with the main chute inside. The tail cover plate had apparently been torn off during break up of the aircraft and the pilot chute deployed. The pilot chute was partly burned, allowing this weapon to descend faster than No. 1. There was plutonium contamination in the area.

The tail coverplate of Weapon No. 4 was found on land with the support rings and MDF intact. No



Weapon No. 3 tail section with burned parachute



Weapon No. 3 tail section with burned parachute

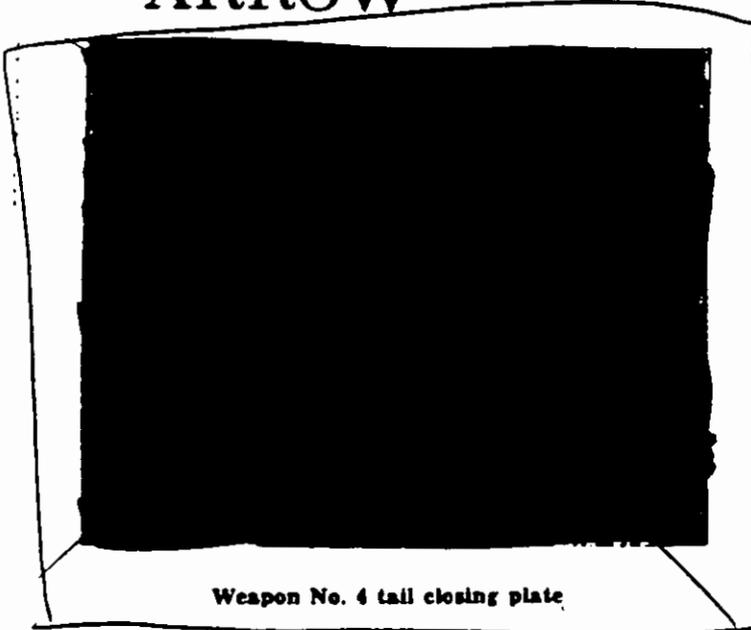
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Weapon No. 4 tail closing plate



Personnel Decontamination



Alpha Monitoring

other traces of this weapon were found until the weapon was located on the ocean floor.

CONTAMINATION

As radiological monitoring moved outward from the impact points of Weapons No. 2 and 3, the contaminated area was established. From ground zero of Weapon No. 2, initial alpha contamination ranging from over 2,000,000 cpm to 7,000 cpm covered an area of approximately 36 acres. From ground zero of Weapon No. 3, the contamination ranged from over 2,000,000 cpm to 7,000 cpm and covered an area of approximately 11 acres. The total to 7,000 cpm area of contamination from both weapons ran together, covering approximately 650 acres. Contamination was caused by the scattered plutonium and uranium.

Immediate requirements existed to detect and mark the large areas of contamination and to locate and recover the No. 4 weapon. Personnel and equipment were dispatched to this area until a peak population of over 700 was reached at "Camp Wilson." Over 40 PAC-IS radiation detection instruments were used by the monitors. It became apparent that an accident of this scope required field reliable instruments and thoroughly trained operators.

Once the weapon components were recovered and the contaminated area well defined, the problem of "what to do about it" came next. With the agreement of the Spanish Government, the top soil of the very highly contaminated areas was removed, placed in barrels, and returned to the continental U.S. The lesser contaminated areas were plowed and watered until the count was reduced to an insignificant level. All crops and other vegetation under 400 cpm were removed from the highly contaminated areas and disposed of. The tomatoes from low-level radiation areas were purchased by the Air Force and, after washing, were consumed by the camp complement, "Warner's Warriors."

THE SEARCH FOR WEAPON NO. 4

During the detection and cleanup of the contaminated areas, an equal force was busily engaged combing a large area for the missing No. 4 weapon. This area was crossed and re-crossed by searchers at arm's length. The area was searched in minute detail with personnel looking for holes which could be made by a falling secondary in the event a mid-air break up of the weapon had occurred. Many small depressions and open mine shafts were marked and systematically probed in an effort to locate the weapon component.

A Systems Analysis Team composed of personnel from the AEC Albuquerque Operations Office, Sar

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CONTAMINATION



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Alumnaut



Alumnaut and Alvin

dia Corporation, System Evaluation Group (Wright-Patterson AFB), and the Directorate of Armament Development (Eglin AFB, Fla), was appointed to study the problem and define the probable impact area of the No. 4 weapon and/or weapon parts. The team, aided by computer runs at Sandia Corp. established the probable aircraft impact point, probable point at which weapons were forcibly released and possible areas to search for the missing weapon. Two theories, both with some supporting evidence, pointed to the Mediterranean Sea as the resting place.

~~(S.D.) (C-1)~~ One of the two salt water solutions would have the weapon striking a portion of falling aircraft debris resulting in a low order detonation. There was some unexplained low-level contamination on several aircraft parts and in the initial urinalysis of one of the survivors. Also, eyewitness reports of deployed parachutes described two, in particular, that would account for the 16-foot chute with large chute bag attached and the 64-foot chute with only the weapon aft section attached.

~~(S.D.) (C-1)~~ The second theory postulated that the weapon tail cover plate was torn off when the weapon was thrown free of the aircraft, deploying the parachutes. This would allow the weapon to descend in a retarded condition. The sighting of a large chute apparently reefed in a figure eight appearance lent credence to this solution. Since only the cover plate was found and the large chute would cause the bomb to drift out to sea during descent, this was finally selected as the more logical theory.

Based on crew member reports from several fishing boats concerning the estimated positions of the



Ocean Bottom Scanning Sonar

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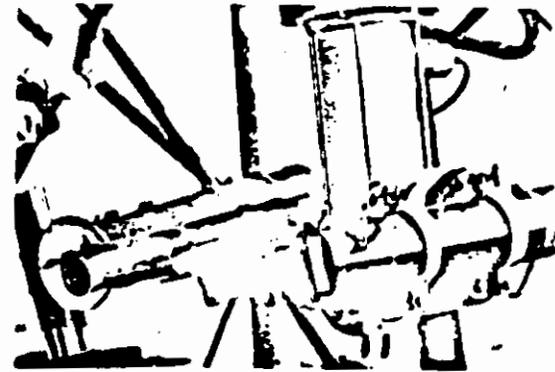
parachutes and recovery of survivors, a primary water search area was established. A Navy Task Force, commanded by RADM William Guest, conducted the underwater portion of the recovery operation. Sonar was used to detect suspected objects. The location of each sounding was charted and numbered for later examination by deep submersible vehicles.

RECOVERY OF WEAPON NO. 4

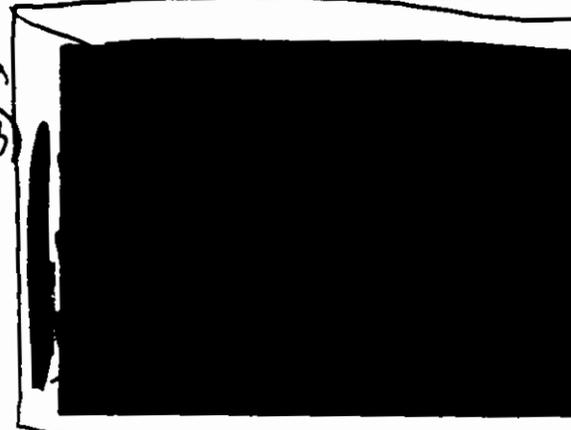
On the 15th of March at 1100Z, the two-man submersible device named "Alvin" located an object with an attached grayish parachute resting on a 70-degree slope at a depth of 2,550 feet. The chute was tangled with the object, covering most of it. The following day, underwater photographs of the object were evaluated by a team composed of AEC and Air Force EOD personnel. The civilian crew of the Alvin also examined photographs of weapons and clip-in racks. Both groups were convinced that the object was the missing weapon with a portion of the clip-in assembly still attached.

Sea conditions and the necessity for careful planning delayed the recovery attempt until 23 March. Improved conditions on 24 March led to the first attempt to recover the weapon. The plan was to move the unit up slope to a more shallow, level area where divers could be used for final recovery. During this attempt, the nylon cable fastened to the weapon was cut and contact with the weapon was lost.

On 2 April, the Alvin again located the weapon. It had moved down slope to a depth of 2,900 feet.



Underwater TV camera



Underwater photograph of Weapon No. 4

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Underwater photograph of weapon No. 4 with parachute and bomb rack mounting structure

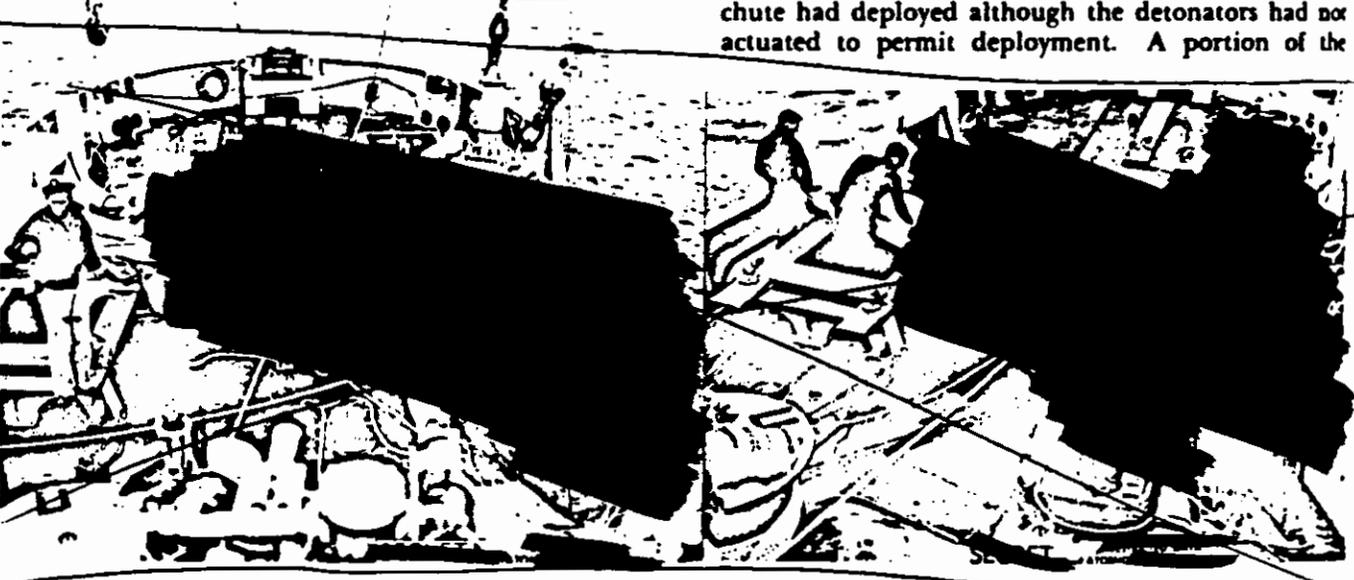
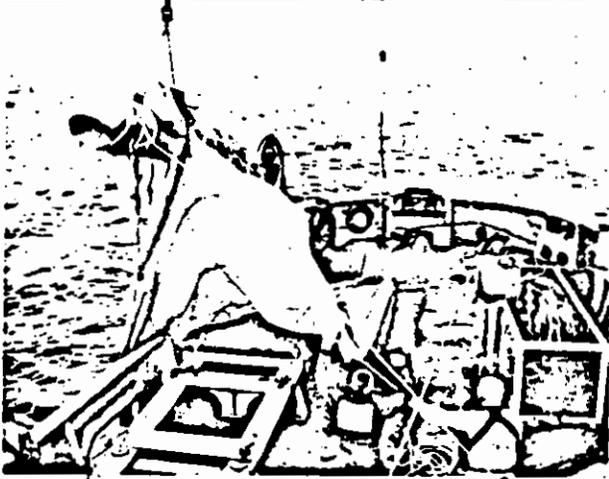
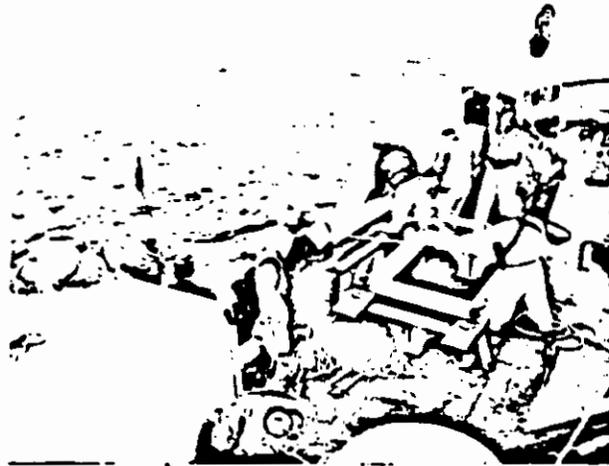
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Again, preparations were initiated to recover the unit. Early on the morning of 7 April, the CURV, an unmanned torpedo-recovery vehicle, became firmly entangled in the weapon parachute while attempting to attach a third towing line. At this time, it was decided to raise the CURV and weapon together. When the weapon was approximately 100 feet below the surface, divers attached a steel cable fore and aft of the bomb lift lugs. The unit was then hoisted aboard the recovery vessel where a composite Air Force/Navy EOD team was standing by to perform the Rendering Safe Procedures. Minimum Rendering Safe Procedures were performed in order to maximize post mortem investigation.

~~(S)~~ ~~(C)~~ The recovered weapon was in surprisingly good condition, considering the environment to which it had been subjected over the past 80 days. The exterior of the unit was generally intact except for two gashes approximately 40-inches long at the bottom of the tail ballistic case section. Three fins, pullout rods, and the tail closing plate and ring were found on land. One fin was found entangled in the parachute canopy. One large and several small indentations were evident on the nose section. The aluminum honeycomb shock-mitigating material had been deformed. The weapon skin on the fuze section was slightly buckled presumably due to overpressure in the deep water. The warhead case cover inside the weapon was depressed against internal components. Water had been forced inside all portions of the weapon and mud was inside the fuze and tail sections. All parachutes except the 30-inch stabilization chute had deployed although the detonators had not actuated to permit deployment. A portion of the

RECOVERY OF WEAPON NO. 4

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MUR20/C clip-in assembly had been torn from the aircraft and was still bolted to the MB-3 rack. The MB-3 was locked to both lifting lugs on the weapon. The rear of the MB-3 was compressed so that the locking mechanism was jammed in the locked position.

(S) (C) (1) The rendering safe procedures accomplished by the joint Air Force/Navy team were monitored by Air Force, Navy, and AEC representatives.

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Except for the warhead cover removal, little difficulty was encountered in component disassembly. There was very little evidence of corrosion on any of the parts.

The disassembled weapon was mounted in a J-79 engine container, and sand was poured around the warhead section. The other components were packed separately in either end of the container.

Throughout the render safe procedures and preparation for shipment, monitoring was conducted with T-290, PDR-27 and PDR-56 Radiac instruments. There was no indication of contamination above background level for the weapon.

Camp Wilson was closed on Easter, 10 April 1966

! Navy Task Force 65 was deactivated on 11 April 1966. To the many support agencies and especially those who wear the insignia of the Broken Arrow and the Black Beret and specially to Maj Gen Delmar E. Wilson who commanded and coordinated all phases of the search and rescue operation — **JOB WELL DONE.**

RENDERING SAFE

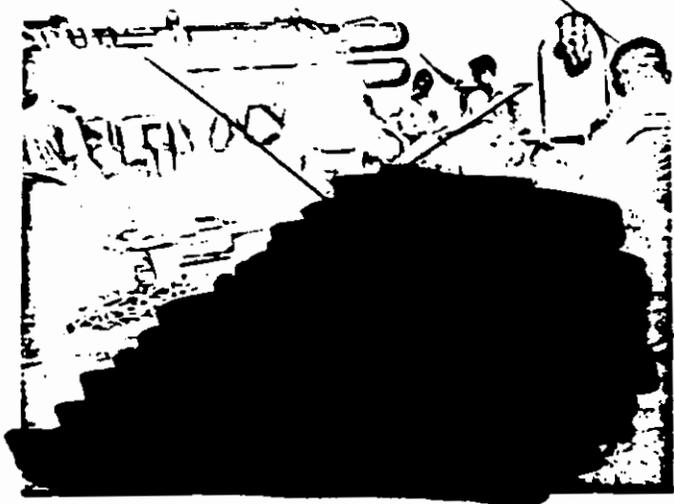
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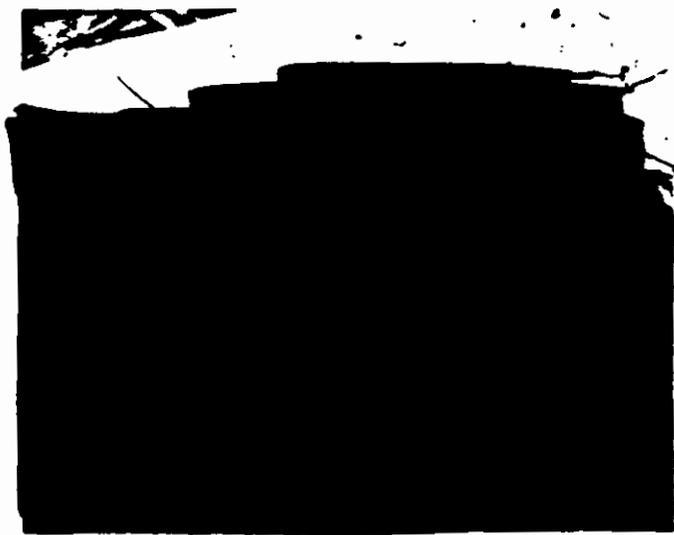
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WEAPON NO. 4



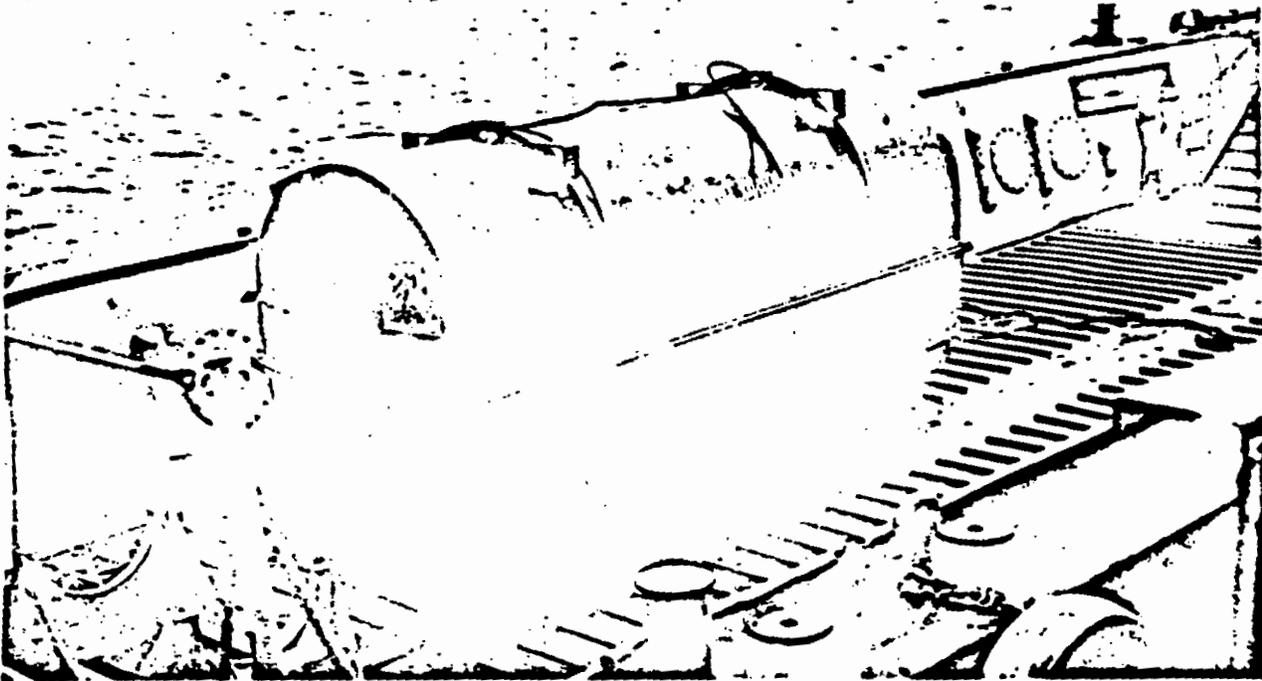
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Disassembled weapon transported in a J-79 engine container.

A MESSAGE FROM THE CHIEF OF STAFF

I would like to pass on the following message received from Secretary of Defense McNamara:

"The recovery of the missing nuclear weapon near Palomares brings to conclusion the critical phase of an extremely difficult and vitally important task. The determination, dedication and professionalism which have characterized this effort are in the highest tradition of the military services. The efforts of the forces concerned, together with the support, advice, and assistance of the Atomic Energy Commission and its laboratories and of the entire country team in Spain, have been instrumental in transforming the tragic accident of January 17th into a clear demonstration of a responsible nation acting in good faith. Please convey to all concerned my congratulations and sincere appreciation. s/Robert S. McNamara, Secretary of Defense."

Please add my appreciation and thanks to all of the personnel involved for their standing efforts.

J. P. McCONNELL, General, USAF
Chief of Staff

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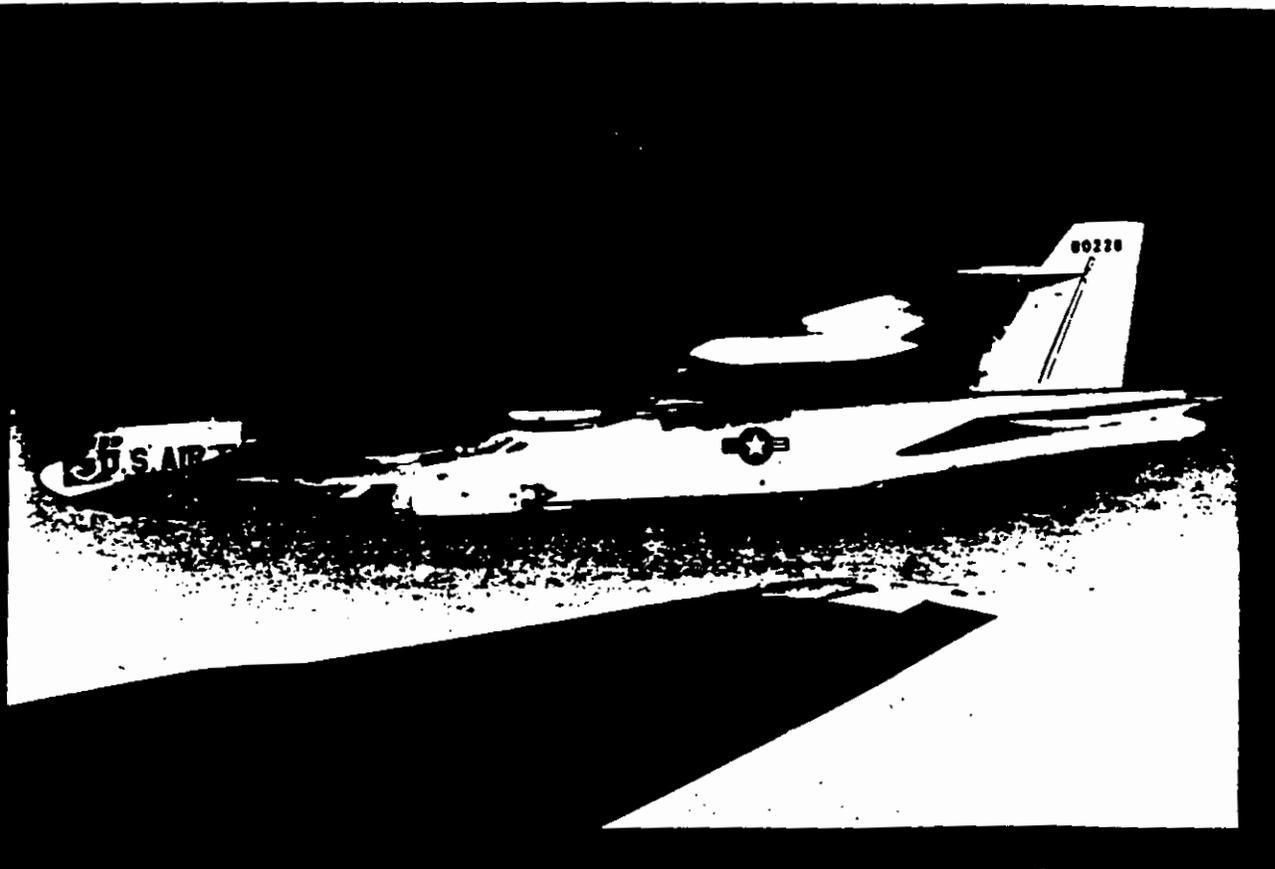
UNITED STATES AIR FORCE

31 MAR 1966

NUCLEAR SAFETY

VOLUME 32

SEPTEMBER-OCTOBER 1966



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BROKEN ARROW

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BROKEN ARROW- THULE

WEAPON SYSTEMS DIVISION
DIRECTORATE OF NUCLEAR SAFETY

~~This article is classified SECRET-RESTRICTED~~
~~EXCEPT WHERE SHOWN OTHERWISE.~~

INTRODUCTION

On 21 January 1968 the United States Air Force experienced its first nuclear accident in two years. The last previous accident occurred in January 1966 near Palomares, Spain.

This latest nuclear accident, or Broken Arrow, resulted from the crash of a B-52G aircraft near Thule Air Base, Greenland. The aircraft was on an airborne alert mission with four [REDACTED] weapons aboard. The accident occurred following an uncontrollable in-flight cabin fire which necessitated abandonment of the aircraft. Six of the seven crew members survived.

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The aircraft crashed on the sea ice of Wolstenholme Fjord, 7 1/2 miles west of Thule Air Base, at an estimated speed in excess of 450 knots. Figure 1 shows the crash location. The aircraft and weapons were destroyed by impact, explosion, and fire. Burning of the JP-4 fuel produced a blackened area, shown in Figure 2, which measured approximately 160 by 720 yards. The force of the impact and detonation of the high explosives in the bombs spread aircraft debris and weapon components over a 1- by 3-mile area. Radioactive contamination could be detected throughout most of this area; however, the majority of this contamination was confined to the blackened area.

Sections of the aircraft bomb bay were found 2 miles north of the impact area. These were not con-

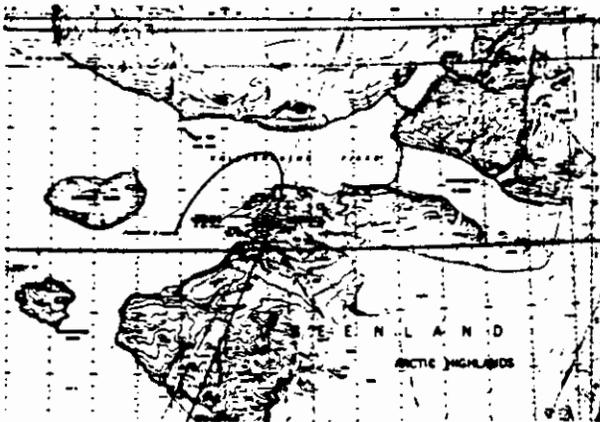


Figure 1—Crash location

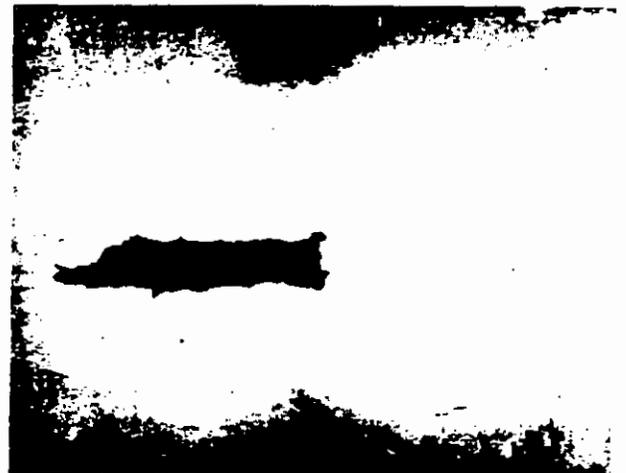


Figure 2—Blackened area

[REDACTED]

[REDACTED]

taminated. The aircraft had started to disintegrate prior to impact due to structural loads and air frame twisting at high speeds.

The thickness of the ice at the time of the crash was determined to be 30 to 48 inches. Depth of the water in the fjord under the crash site was about 800 feet.

The name "Crested Ice" was assigned to the Disaster Response Force recovery actions following the nuclear accident. Response Force actions were terminated as of 30 March 1968.

ACCIDENT RESPONSE

At 2040Z on 21 January 1968, the Headquarters SAC Command Post was notified that a crash had occurred at 2039Z. The SAC Disaster Control Team departed Offutt AFB at 0125Z, 22 January 1968, and arrived at Thule at 0644Z—approximately ten hours after the crash.

By 1845Z on 22 January 1968, a total of 68 people, including members of the SAC Team, were available at Thule to conduct the disaster control operation. Other commands or agencies represented were the Aerospace Defense Command, Air Force Logistics Command, Air Force Directorate of Nuclear Safety, Defense Atomic Support Agency, Atomic Energy Commission, Los Alamos Scientific Laboratory, and Sandia Corporation. Within days, the disaster control force had grown to a total of 565 people from 72 separate locations.

The On-Scene Commander was Maj Gen Richard O. Hunziker, Director of Materiel, Hq SAC. (He became the Deputy Inspector General for Inspection and Safety, Hq USAF, on 1 May 1968). Organization of the Disaster Control Team is shown in Figure 3.

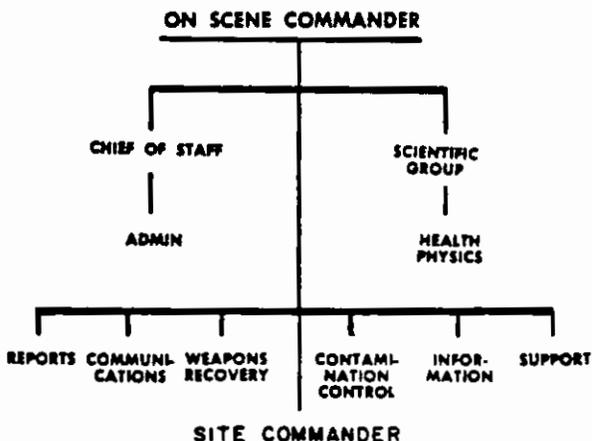


Figure 3—Organization of the Disaster Control Team

ON-SITE FACILITIES

To provide control, equipment support, shelter, and communications, a base camp was constructed at the accident scene.

The first effort consisted of the construction of a heliport, erection of a prefab shelter and igloos, and the installation of generators, a telephone land-line, and radio communications. Much of the material for this first phase was transported to the site by helicopter sling.

Later, two ice roads from Thule Air Base to the crash scene were completed, making possible a 24-hour operation at the site. The base camp eventually consisted of a large prefab building, two ski-mounted buildings, several small huts, a Jamesway hut, a maintenance building, a decontamination trailer, a latrine, and several diesel power units.

This camp proved to be a key factor in permitting sustained operations in the arctic environment near Thule Air Base.

WEAPONS RECOVERY

The initial reconnaissance and early searches indicated that the 1- by 3-mile area south of the impact point was the prime area to be searched. While the total area searched was approximately 30 square miles, the search and recovery teams concentrated most of their efforts in the 1- by 3-mile area.

The four [redacted] bombs were contained in an MHU-20/C clip-in assembly in the aircraft. Bomb No. 690020 was in the lower right position (looking forward from the bomb bay), bomb No. 453171 in the upper right, bomb No. 815950 in the upper left, and bomb #78252 in the lower left. For easy reference, the four bombs were identified as No. 1, No. 2, No. 3, and No. 4, respectively.

Parts of the bombs were found scattered from the impact point southward for about 3 miles. The width of the scatter pattern was approximately 1 mile. Parachutes found in the burn or black area and within 1,000 feet of the impact point were heavily contaminated. Tritium reservoirs were located between 1,500 and 3,000 feet from the impact area. All reservoirs [redacted] had been deformed by the detonation of the high explosives in the bombs. The reservoir from bomb No. 4 was deformed in a different manner than the ones from the other three bombs. Parts of secondaries and bomb debris were widely scattered throughout the 1- by 3-mile area. Individual bomb status is given below. Figure 4 shows the location of the recovered bomb components.

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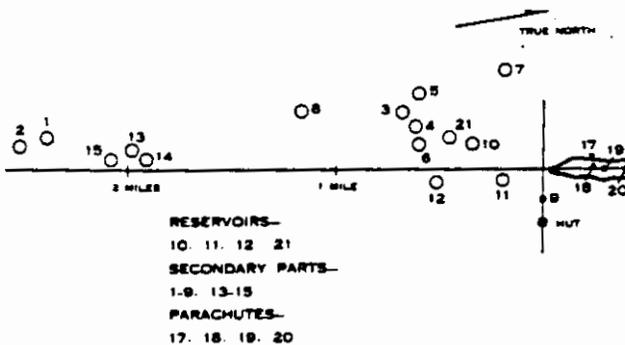


Figure 4—Location of recovered bomb components

- Bomb No. 1: Reservoir was found approximately 3,000 feet from the impact area. Parts of the secondary were found 1 mile and 2 miles south of the southern tip of the burn area.
- Bomb No. 2: Reservoir was located about 2,000 feet from the impact area. Part of the secondary [REDACTED] was found approximately 2 1/2 miles south of the impact point.
- Bomb No. 3: Reservoir was found approximately 1,500 feet from the southern edge of the burn area. [REDACTED]

- Bomb No. 4: Reservoir was found about 3,000 feet south of the impact area and 750 feet east of the reservoir from bomb No. 1.

Unnumbered parts of the bomb secondaries were found widely scattered. These pieces accounted for less than three complete secondaries. An analysis by the AEC of the recovered secondary components indicates recovery of 85% of the uranium and 94%, by weight, of three secondaries. No parts of the fourth secondary have been identified.

Other miscellaneous parts found were:

- Two 64-foot parachutes
- Two 16 1/2-foot parachutes
- One unidentified parachute
- One tail closing plate
- Two valve assemblies
- One piece of case section, 2 1/2 feet by 4 1/2 inches
- One part of a low voltage power supply
- One front plate of a parachute deploying device
- One piece of coupling ring
- Four bomb lugs
- One piece of aluminum plate from fuze section (back of honeycomb)

Two irregular pieces of tuballoy—pencil size
All recovered bomb components were moved from the crash area to Thule Air Base for inspection, identification, and packaging by AEC/PANTEX personnel prior to shipment to AEC facilities in the CONUS.

AIRCRAFT DEBRIS

The recovery of aircraft debris began during the early days of the disaster control operation. This was necessary in order to stop the spread of contaminated debris which occurred during periods of high winds. As this debris was collected, every effort was made to separate aircraft parts from weapon parts. Explosive Ordnance Disposal (EOD) personnel examined all questionable pieces to assure that weapon parts were not mixed with aircraft debris.

Containment of aircraft debris was started on 9 February, using 30- and 50-gallon containers, surplus R-4360 engine containers, and various large tanks obtained from the Thule Air Base salvage yard. All containers were sealed at the crash site, checked for any external contamination, and then moved to an on-base storage area where another check for external contamination was performed. Representatives from the Oak Ridge National Laboratory observed all packing, transportation, sealing, and storing procedures.

The recovered debris filled 163 drums, 14 engine containers, and 11 large tanks with a total capacity of 14,720 cubic feet.

During the summer months, the recovered debris will be shipped to a burial site within the CONUS.

CONTAMINATION CONTROL

Controlling the spread of contamination was one of the primary objectives of the disaster control team. Gross decontamination of personnel was accomplished at the crash site, and final decontamination was conducted in a complete on-base facility. The standards used were a maximum of 450 counts per minute (CPM) (measured with PAC-1S meters) for U. S. personnel, and zero for foreign nationals.

Vehicles underwent preliminary decontamination at the site and were then processed through water and steam facilities on base. These facilities were also used to decontaminate miscellaneous items of support equipment.

Base facilities such as billets, Officer and NCO Clubs, etc., were routinely monitored to verify the effectiveness of established contamination control procedures.

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RADIOLOGICAL MONITORING

Radiological monitoring was accomplished throughout the entire disaster control operation.

Beta-gamma readings taken during the initial days of the operation with an AN/PDR-27J instrument did not exceed 1.5 milliroentgens per hour. This confirmed that there was no nuclear yield from any of the four weapons.

A zero line was established on 25 January. This line, enclosing a 1- by 3-mile area at the crash scene, marked the outer limits of measurable alpha contamination. This "Hot Line" was used for the control of personnel and vehicles entering and leaving the contaminated area.

Practically all metal debris within the 1- by 3-mile area was contaminated. Within the 160- by 720-yard black area, alpha contamination readings of 200,000 CPM were common; readings in excess of 2,000,000 CPM were obtained from some metal debris.

During the early phases of Operation "Crested Ice," alpha contamination measurements were made with PAC-1S meters. The effectiveness of these instruments for conducting an area radiological plot of the crash scene was questionable, since a thin cover of snow or ice would mask the alpha radiation.

Low energy X- and gamma rays are associated with the alpha decay of plutonium (17 KEV X-ray from plutonium 239 and 60 KEV gamma ray from americium 241, a daughter product of plutonium 241). For the first time at a Broken Arrow, an instrument capable of detecting these low energy X- and gamma rays was used for area surveys. The instrument is called the FIDLER (Field Instrument for Detection of Low Energy Raditions). The instrument consists of the new Eberline Instrument Company Model PRM-5 analyzer and a scintillation detector constructed by Harshaw Chemical Company. The detector scintillation crystal (Sodium Iodide) is 1/16 inch thick and 5 inches in diameter and is very efficient for low energy radiation. It was used effectively to plot plutonium contamination (area survey) by measuring the 60 KEV gamma radiation from the americium 241 which is not greatly attenuated by a thin layer of ice or snow.

The PRM-5 analyzer was also used with an Eberline SPA-3 detector, a 2- by 2-inch scintillation crystal suitable for higher energies. It was calibrated to measure the 185 KEV gamma radiation from uranium 235. This combination was used for weapon component searches.

ARCTIC ENVIRONMENT

On 22 January, when the SAC Disaster Control

Team conducted its initial reconnaissance of the crash area, a short period of half-light existed at midday. Twilight began on 24 January, increasing to 5½-6 hours on 10 February. On that date, the sun appeared at Thule Air Base for the first time since 2 November 1967. The amount of sunshine increased daily until 10 April when there were 24 hours of sunlight.

The average equivalent temperature during operation "Crested Ice" was minus 40 degrees; on some days equivalent temperatures of minus 80 degrees were recorded. Associated with these extremely low equivalent temperatures were the sudden, severe arctic storms. Characteristics of these storms are as follows: Phase Alert, severe weather is forecast and probable; Phase I, wind 20-30 knots, visibility one-half to three-quarters of a mile; Phase II, wind 31-50 knots, visibility one-quarter to one-half of a mile; Phase III, wind 51 knots or more, visibility one-quarter of a mile.

NUCLEAR SAFETY CONSIDERATIONS

When the B-52G aircraft was abandoned, all nuclear weapon associated switches in the aircraft and bombs were properly positioned, safety wired and sealed, in accordance with [REDACTED] "Safety Rules for the B-52 [REDACTED]" DN
(6)3

Interrogation of the aircraft flight crew by the 8th Air Force Aircraft Accident Investigation Board definitely verified that the aircrew, during the flight, took absolutely no action to change any of the prescribed positions of the weapon control switches. All of these controls were maintained in the SAFE configuration in which they were originally placed when the weapons were loaded aboard the aircraft in accordance with the prescribed Technical Data.

The four weapons were subjected to the catastrophic environments of impact, explosion, and fire. Safety devices in the aircraft and the weapons prevented a nuclear detonation.

SUMMARY

Project "Crested Ice" was a unique operation. Most of the personnel who participated had little arctic experience. Much of the equipment was not designed for use under arctic conditions. The remote geographical location, severe weather conditions, the size of the disaster site, and the long periods of darkness all presented numerous and difficult problems not normally associated with established disaster control plans and operations. In spite of these problems, all disaster control actions were accomplished in a timely and successful manner. This outstanding accomplishment is a tribute to the professionalism of all who participated.

~~SECRET~~

~~CONFIDENTIAL~~
~~ATOMIC ENERGY ACT 1954~~

~~TC09000010~~

~~SECRET~~

AID STATION

by
Mark Modd

~~Individual paragraphs of the AID manual
FOR ORIGINAL USE ONLY unless otherwise
indicated. Approval of information from
this manual will be required for classifica-
tion of CONFIDENTIAL (para 1-96, AID
1-1-78)~~

WIND-BLOWN IGLOO DOORS AGAIN (AGAIN)

~~(SECRET)~~ The following is a repeat of an article from the Jan-Feb-Mar 68 issue (AID Station) of *USAF Nuclear Safety* (Part 1): "At an oversea storage site an MHU-12/M trailer loaded with a Mk-28 weapon was being removed from the igloo. Wind blew the igloo door closed and the door handle gouged the parachute cone and put a five-inch crack in the cover. This same thing happened before—and needlessly. It's a relatively simple matter to get the Civil Engineers to install door-restraining devices that will prevent the door from moving no matter how hard the wind blows. After the devices are installed, be sure to include a requirement for their use on your breakout check list!" Would you believe it happened again? This time the crack in the parachute cone was a little smaller. The wind—only 12 knots. The corrective action taken: a priority work order was submitted to have restraints installed. What is that old saying? "Forewarned is forearmed."

DON'T BREAK THE PIN

~~(SECRET)~~ The Mk-28 weapon-to-aircraft connectors are prone to breakage if roughly handled during loading. The break pins in the weapon connectors are particularly susceptible to shearing. The Mk-28 load/unload procedures in TO 1F-XX-16-2 and the break pin check portion (para 8-5) of TO 11N-B28-1 contain a multitude of caution notes. These notes stress that:

- Pullout receptacles are fragile.
- Extreme care is required to prevent damage to the plugs and receptacles.
- Side pressure must not be exerted on the receptacles.

~~(SECRET)~~ In addition to the fragile nature of the connectors, the point is that small lateral forces (side pressure) will damage (probably shear) the break pin because of the increased leverage. Since mid-March 1967, there have been six connector/break pin deficiencies attributed to personnel error. Four of these took place in a recent three-month period. The trend speaks for itself. Delicacy and gentleness go a long way. Be a lover not a rogue.

OVER-CONCENTRATION AND OOPS!

~~(SECRET)~~ A clip-in assembly with four Mk-28 weapons was being removed from a B-52 aircraft using an MHU-7/M trailer. The munitions loading team was complying with the unloading procedure of TO 1B-52B-16CL-1 by observing the "CAUTION: 'Observe clearance between aircraft structure and clip-in package during removal.'" Good! The problem arose when the MHU-7/M trailer wheel ran over the MD-3 power cable at such a point to apply tension at the connection point of the MD-3 power cable and the MHU-7/M power receptacle. Th

~~SECRET~~

~~RESTRICTED DATA
ATOMIC ENERGY ACT 1954~~

~~SECRET~~

AFR 122-4 is a vital part of the USAF Nuclear Safety Program. Read it, follow it, and don't forget it!

LOOK —
BEFORE YOU LEAP!

GAS (JP-4) PAINS

There have been several reported cases of JP-4 fuel contamination on various weapons. The result is that seals and gaskets become rather fluid-like in nature and no longer serve their purpose. Besides the unnecessary weapon maintenance generated, the danger of introducing other contaminants via the deformed seals is obvious. The word is "keep the gas in the bird" and off the weapons.

HOT STUFF!



A new "twist" was recently put on safin armament selector switches. When the armament selector switch was safetied prior to loading on F-101 aircraft, the armament selector knob was inadvertently safety wired and sealed in a position other than safe. Neither the load crew (during the post-load checks) nor the aircrew accepting the aircraft, noted the error. During aircrew changeover pre-flight some 24 hours later, the pilot noticed and reported the switch position to the Safety Officer. No need to elaborate on the potential of this situation. Remember! Look before you safety wire. In addition, aircrew members must not only verify that a switch is safetied and sealed but they must verify switch position.

A Mk-25 was being transported by an MF-9 trailer from the flight line to the munitions storage area. Six minutes after the convoy departed the flight line, smoke was observed coming from the right rear wheel of the MF-9 trailer. The convoy was stopped and fire department personnel arrived as a safety precaution. An investigation revealed that the deficiency had been caused by the right wheel brake cable sticking in the guide slot. The brake handle had been placed in the off position, but because the brake cable was stuck, the brake did not fully release. When an MF-9 trailer is to be moved, check and guarantee that the brakes have, in fact, released. This can be done by checking the brake cable for free movement. **DON'T GET CAUGHT WITH YOUR BRAKES HANGING!!!!**

AID REPORTING

Clarification—AFR 127-4. A question arose recently on the interpretation of paragraph 7a (4) (a), AFR 127-4, which outlines a new requirement for mandatory reporting of unusual and severe environments. One intent of the reporting requirement is to ensure that heavy shocks and potentially damaging earthquakes are reported. Minor tremors of the level of a passing vehicle (and obviously well below levels of normal storage and handling shock and vibration) need not be reported even though such tremors result from earthquakes. Likewise, lightning strikes other than in the vicinity (within 1,000 yards) of a nuclear weapon need not be reported.

DATE 8 JUN 68 20277

[REDACTED]

AT LEAST 2 EA. 1/4 BOTTLES (RESERVED) AND PROPERLY LABELED BOTTLES
IN CONTAINER AREA ALSO THE ITEMS, WITH NO INDICATIONS OF RADIATION
HAZARD.

ON PRELIMINARY INSPECTION OF REFUELLING TANK REVEALED THAT HOSE
COUPLING AT FILLER APPARENTLY BACKED OFF AND SEPARATED. THERE IS
NO OTHER EVIDENCE TO INDICATE THAT CAUSE OF SEPARATION
WAS AN EXPLOSION. ALSO, THERE IS EVIDENCE OF FIRE INSIDE BOTH
TANKS OF COUPLING INDICATING FIRE FOLLOWED SEPARATION. WING VENTING
AND STATIC BONDING PROCEDURES OF BOTH AIRCRAFT AND REFUELLING
TANKS HAD BEEN EFFECTED. CAUSE OF IGNITION HAS NOT DEFINITELY BEEN
DETERMINED AT THIS TIME.

UNCLAS
UNCLAS

ALL TOB, MEDICAL, SECURITY ARE AVAILABLE
BASE MEDICAL PERSONNEL ARE DECONTAMINATING AND TESTING PERSONNEL
AND CLOTHING AT PRESENT.

MR. GRIFFISS, JANAC, ALBUQUERQUE, NEW MEXICO, WILL ARRIVE AT
APPROX 1900 HRS, THIS DATE, TO DETERMINE DISPOSITION.

YES. NEWS RELEASE MADE BY WPAFB INFORMATION OFFICER.

UNCLAS

CAPTAIN RICHARD P. ARVOLD,

P-3

[REDACTED]

10-5-4359

[REDACTED]

SECRET [REDACTED]

REF ID: A663277

REPORT IAW PARA 8A AND ATTACHMENT 2, APR 1974

SUPPLEMENTAL REPORT (EWE 05334, 14 OCT 69) FOLLOWS: QUOTE:

[REDACTED]

END OF THESE CANS WERE RUPTURED. ONE OF THE RESERVOIRS TAKEN FROM A RUPTURED CAN WAS ALSO RUPTURED. THE OTHER RESERVOIR WAS NOT RUPTURED AND IS BELIEVED TO CONTAIN THE GAS. THESE TWO RESERVOIRS HAVE BEEN WRAPPED IN PLASTIC AND PUT IN A CONTAINER FURNISHED BY WOUND LAB. THE CONTAINERS HAVE BEEN WRAPPED IN PLASTIC AND TAPED. 29 OTHER CANS PLUS ONE EMPTY CAN NOT OFF-LOADED FROM AIRCRAFT. ONE OF THE 29 CANS IN THE SAC CUBES CONTAINS A SECRET RESTRICTED DATA ITEM BELIEVED TO BE [REDACTED] OTHER [REDACTED] CANS ARE STILL UNIDENTIFIED AS TO CONTENTS. THERE ARE A FEW, ACCURATE COUNT NOT YET AVAILABLE, LOOSE ITEMS BELIEVED TO BE GENERATORS OR ZIPPERS.

UNQUOTE: GP-1.

P-4

SECRET [REDACTED]

10-5-4359



[REDACTED]

PINNACLE BROKEN ARROW

September 1980

ROUTINE

DATA 02275

215 1416:07

19

RTTCZYUW RUVKADA1537 2151348-CCCC--RUWTFBF.
ZNY CCCCC
R 031451Z AUG 78
FM DIR SP WPNS KELLY AFB TX/SWPTB
TO FC DWA KIRTLAND AFB NM/FCPSM ✓
BT

~~CONFIDENTIAL~~ FORMERLY RESTRICTED DATA ATOMIC ENERGY ACT 1954

SUBJECT: ONE TIME REPORT DULL SWORD 288MW 78-28. PROBLEM: WHILE PERFORMING A LLC EXCHANGE ON W55-4 S/N 253654, TEAM MEMBERS FOUND THAT THE BRACKET COULD NOT BE UNSCREWED FROM THE RESERVOIR. DESPITE REPEATED ATTEMPTS TO REMOVE THE BRACKET, IT WOULD NOT TURN IN EITHER DIRECTION. THE OPERATION WAS STOPPED AND MUNITIONS CONTROL WAS NOTIFIED. UPON INVESTIGATION, THE BRACKET WAS FOUND TO BE PROPERLY ALIGNED WITH NO SIGN OF CROSS-THREADING. IT IS SUSPECTED THAT THE BRACKET THREADS SEIZED TO THE BOTTLE THREADS. REPLACEMENT RESERVOIR AND BRACKET HAVE BEEN INSTALLED. REQUEST DISPOSITION INSTRUCTIONS BE PROVIDED FOR DEFECTIVE RESERVOIR AND BRACKET. ALSO REQUEST AN EVALUATION BE CONDUCTED TO DETERMINE CAUSE OF PROBLEM AND APPROPRIATE CORRECTIVE ACTION TAKEN.

BT
#1537
NNNN

AD2162	IRPO
FCPSM	FCD
	FCPP
	FCPF
	FCT
	ECDA

ROUTINE

CONFIDENTIAL

FLASH

PT 00301

ZTTUZYU RUEBDBA0099 0231410-UUUU--RUWSSBA.

9878/10

NRK UUUUU

Z 231409Z JAN 73

FM HQ DNA WASH DC

INFO JINACC FLD COMB KIRTLAND AFB NM

Z 221044Z JAN 73

FM JCS

INFO CSA WASH DC

CNO WASH DC

DNA WASH DC

ANMCC FORT RITCHIE MD

Z 221637Z JAN 73

23 JAN 73 14 31Z

FLASH

Handwritten initials/signature

TO SAC CP FORCE STAT

2AF CP FORCE STAT

SAC CP OPS/LOG

2AF CP OPS/LOG

CSAF

JCS (NMCC)

AFFOC/FT RITCHIE

T

JOPREP JIFFY/PINNACLE509BW/OPREP-3

NONE, UNK, UNK

CROSSLIST BY VOLT WIPE, NONE, NONE, SAFETY

CHEKLIST RUN BY RMD SAFETY OFFICER, UNK AT THIS TIME. A FOLLOW UP REPORT WILL FOLLOW

T

UNCL

NRK

ACTION	INFO
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[REDACTED]

02

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PTA 00556

2 30 2 14 52 20

DCO

ZTTSZYUW RUEKJCS0348 230210Z-SSSS-RUWFFBF.

ZNY SSSSS

Z 182142Z AUG 81

FM NMCC WASHINGTON DC

TO FCDNA KIRTLAND AFB NM

Z 0 181950Z AUG 81

FM

TO RUEKJCS/ NMCC WASHINGTON DC//

INFO RUEAHQA/ CSAF WASHINGTON DC//AFDC//

RUISNAAA/ USCTNCFUR VAHTNGEN GE//ECJS-OC//

PUFTRWA/ USAFF COMMAND CENTER RAMSTETN AR GE//

PHFRAAR/ HQ USAFF RAMSTETN AR GE//DOC//

RUEKAAA/ AFEOC FT RICHIE MD//

[REDACTED]

RUMTERA/ DIR OF NUCLEAR SURETY KIRKLAND AFB NM//SNA//

RUVAFLC/ HQ AFLC WRIGHT PATTERSON AFB OH//IGY/LOW//

RUVKAAA/DTF SPECIAL WEAPONS KELLY AFB TX//SMPT//

PUWTERA/ AFWL KTRKLAND AFB NM//NTSS//

RUMTERA/ HQ AFOSP KTRKLAND AFB NM//

[REDACTED]

[REDACTED] JOP RE JIFFY/TN/FRV DO /OPREP-3 REWT SPEAR/004

DEF

A. 191930Z AUG 81

B. [REDACTED]

C. TWO (2) EACH TYPE R61

D. NONE

E. INSPECTION (A/NO.S. OPERATION)

F. UNKNOWN

G. DURING THE INSPECTION, THE CDS INDICATOR PISTON WAS FOUND TO BE EXTENDED. THE T-HANDLE WAS IN PLACE.

H. NONE (N/A)

I. 435 23-09.

J. WEAPON REJECTED IAW T.O. 1 IN-891-1 PARA 4-2.3D. WEAPON IS BEING HELD PENDING INSTRUCTIONS FROM DEPT OF ENERGY (D.O.E.)

K. NONE

L. PREVIOUS INSPECTION OF 100 PERCENT OF MR ASSETS ON 23 JULY 81 REVEALED NO DISCREPANCY IN THESE TWO WEAPONS.

M. PENDING INSTRUCTIONS FROM D.O.E.

BT

#0749

NNNN

ACTION	
FCPE	ED
	RBM
	FCPF
	FJI
	DOE

THIS DOCUMENT CONSISTS OF [REDACTED] PAGES

FLASH

PAGE

PRIORITY

CONFIDENTIAL

OTA 00259

734 1416143

PTT8ZDSW RUFLEPA0090 7331241-5555--RUMVBA
ZNY 5555 ZDS RUFLEPA DUE TO NUMEROUS SVCS
P 211700Z AUG 81

TO RIIVKADA/DIP SP VPNS KELLY AFB TX//SWPTR//
RHFRAAB/HQ USAF HPODS RAMSTEIN AB GE//LBNW//
INFO RIIVYFRA/DIP NUCLEAR SURETY KIRTLAND AFB NM//SNA
RHFQWGA/HQ USAF WASH DC//TRJ/LEYW//
RHFQJAB/HQ USAF RAMSTEIN AB GE//LBNW//IGFU//LOWW//
RHFVFLC/HQ AFLO WPAFB OH//TRJ/LOWW//
RHFVTERA/AFWL KIRTLAND AFB NM//INTSC//
RHFQJAB/AFWS CBS CO RAMSTEIN AB GE//OCON//
RHFVJARA/HQ 32TSC WORTON AFB CA//PC/GCE//

RHFQJAB/AFWS CBS CO RAMSTEIN AB GE//OCON//
RHFVTERA/AFWL KIRTLAND AFB NM//INTSC//
RHFVJARA/AFWS CBS CO RAMSTEIN AB GE//OCON//

CONFIDENTIAL - SECURITY INFORMATION - ATOMIC ENERGY ACT 1954

REF: DIP SP VPNS KELLY AFB TX, SWPTR, IS-PRD 1416143 AUG 81.
PAGE 2 RUFLEPA0090 S R C P S T P D D

1. (S) THE INFORMATION REQUESTED IN THE REFERENCED MESSAGE
IS PROVIDED BELOW.

A. (S) ALL R01-1 AND R01-4 ARE AT THIS LOCATION HAVE BEEN
IN TEST POSITION EXPECT SN 1F3724, SN 451493 AND SN 405101.
CONS RECEIVED ON 18 AUG 81 VERIFIED IN TEST POSITION.

B. (S) TEST EQUIPMENT HAD NOT BEEN CONNECTED TO WEAPONS WHEN
VISUAL INSPECTION REVEALED EXTENDED PISTONS.

C. (S) THE ONLY PHYSICAL CONTACT WITH THE WEAPONS MENTIONED
ABOVE CAME DURING A LOCAL EDM EXERCISE CONDUCTED ON 11 AUG 81.
THIS CONSISTED OF PLACING AN INERT MK48 SHAPE CHARGE TON
PAD PROVIDED. NO MOVEMENT OR HANDLING OF THE WEAPONS WAS
DURING THIS PERIOD OF TIME.

D. (S) TO THE BEST OF OUR KNOWLEDGE THERE HAVE BEEN NO
EXPOSURES, NO ELECTRICAL STORMS WITHIN 10 MILES IN THE PAST
60 DAYS.

SOME CONSTRUCTION HAS BEEN TAKEN
PLACE IN THE USA. HOWEVER NO HEAVY EQUIPMENT HAS BEEN OPERATED
WITHIN 150 FEET OF STRUCTURES. THERE HAVE BEEN NO ENVIRONMENTAL
ABNORMALITIES.

BT

BT

NNNN

PRIORITY

CONFIDENTIAL COPY PAGE

CO

IMMEDIATE

RTA 00077

1704:29

Foot

0457YUW RUEPDR0990 2041531-5595--RUMYFRA.
7NY 00000

O 231830Z JUL 91

FM DIA WASHINGTON DC//LACM//

INFO UNACC FLD COMMAND KIRTLAND AFB NM

O 231543Z JUL 91

FM JCS WASHINGTON DC

TNFO RUEADWD/AFRA WASHINGTON DC

RUEHAAA/ONO WASHINGTON DC

RUEKAAA/INMCO

RUEATTA/OTA WASHINGTON DC

RUEBORA/ONA WASHINGTON DC

RUEHCO /OENSTAIN WASHINGTON DC

RUEAMCO/ONC WASHINGTON DC

RUEHCO /OTALE GORSEN WASHINGTON DC

RUEADWD/INT THROUGH WASHINGTON DC

O 231800Z JUL 91

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

RUEHAAA/OTA OF NUCLEAR SECURITY KIRTLAND AFB NM//SUA//

RUEADWD/NO ATTN WRIGHT PATTERSON AFB OH//TGY/LOW//

RUEHAAA/OTA SPECIAL WEAPONS KELLY AFB NM//NTSS//

RUEHAAA/OTA ACCO KIRTLAND AFB NM//

RUEHAAA/OTA ATSC KIRTLAND AFB NM//SN/CO/DOC//

[REDACTED]

BT

0 0 0 0 0 0

PAGE 02 RUEPDR0990 0 0 0 0 0 0

[REDACTED] JIFFY/TH/AFR V/O/DRREP-3 REFLINE REPT SPEA/001

REFS

1. 231824Z JULY 91.

R. USA.

C. (1) R-61-1.

D. NONE

F. TNSP F., N/A.

R. ONE UNIT HAS COMMAND CTS A-LING

FILE	
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THIS DOCUMENT

IMMEDIATE

PAGE

IMMEDIATE

MECHANISM ACTIVATED.

H. NONE T. N/A.

J. N/A.

K. N/A.

L. ALL OTHERS UNITS INSPECTED OKAY.

M. N/A.

CLASSIFIED BY MULTIPLE SOURCES

DECLASSIFY 31 DEC 2001

BT

00940

NNNN

IMMEDIATE

PAGE

FLASH

*

CONFIDENTIAL
original sanctions
10/1/81



CONNECTED WHEN THEY DISCOVERED THE COMMAND DYSABLEMENT PISTON WAS EXTENDED.

7. AT 0930Z FOD WAS CALLED AND RESPONDED AT 0940Z. AFTER BEING BRIEFED BY THE PAI TEAM AND THE WEAPONS MECHANIC, THE TEAM INSPECTED THE WEAPON ON THE POFFLIGHT PANEL. THE T-HANDLE WAS IN PLACE 3 RUERDRA0981

PLACE. THE SEP EMR AND THE J-1 EMR SHIELD WERE INSTALLED, AND THE INDICATOR PISTON WAS EXTENDED APPROXIMATELY HALF AN INCH. ADDITIONAL INSPECTION REVEALED THE READY-SAFE SWITCH WAS SAFE AND THE SIGNAL SELECTOR SWITCH WAS IN THE NORMAL POSITION. EXTENSION OF THE DISABLE INDICATOR PISTON INDICATES ACTIVATION OF THE COMMAND DYSABLEMENT SYSTEM. HOWEVER, ACTIVATION IS NOT REASON IN ITSELF FOR DOD ACTION.

FOD, THEREFORE, DETERMINED THAT THE WEAPON WAS DISABLED AND THAT IT WAS SAFELY INVESTIGATION AND/OR SHIPMENT. THE T335 TESTER WAS TAKEN TO THE SHOP AND PASSED THE FUNCTIONAL CHECK. THE THREE BATTERIES INVOLVED WERE ALL CHECKED GOOD ON THE T335A. THE T335A VOLTAGE TEST INDICATED 31-32 VOLTS WHEN PLACED ON LOAD TEST.

DECL-31 JULY 2011

BT

#0931

NNNN



*

FLASH

SN
AFWL
LQWA
FCJAC

PRIORITY

PTA 00017

ZNS 100210

211251Z

BTACTVUW RHFRAAB1609 2311043-5555--RUUTPBA RUUTPBF
TNY CCCCC

P R 211251Z AUG 81

FM USAFE EUROPS BANSTEIN AB GE//LQWA//

TO RUWKADA/DTR SP WPNS KELLY AFB TX//CUPTR//

INFO RUUTPBA/DTP NUCLEAR SURFTY KIRTLAND AFB NM//TNA//

RUWABQA/HQ USAF WASH DC//IGI/LEVM//

RUWAFLC/HQ AFPC WPAFB OH//TRV/LQW//

RUUTPBA/AFWL KIRTLAND AFB NM//NTSS//

RUWJARA/HQ AFSC HORTON AFB CA//DC/CCE//

RUWABQA/USCINCPAC VAIHINGEN GE//ECJ3 CCO/ECJ4 7//

RUUTPBA/AFIC USA KIRTLAND AFB NM//LQW//

RUUTPBF/EC DNA KIRTLAND AFB NM//ECR5//

ACTION	INFO
FCBM	Fcd
	Fcp

BY [REDACTED] ATOMIC ENERGY ACT 1950

CIRJ:

DEF: YOUR [REDACTED] AUG 81

([REDACTED]) REF: PARA 32 QTY OF B61 MOD 1/4 THAT REMAIN IN ADS BOMB

STATE IS ZERO. REPEAT ZERO. [REDACTED] B61 MOD 3/4 WPNS.

PAGE 02 RHFRAAB1609 [REDACTED] ATOMIC ENERGY ACT 1950

BT
0154Z
WNNN

PRIORITY

No. 2

PAGE 1

ROUTINE

* ~~SECRET~~ *

~~FORMERLY RESTRICTED~~
~~Under force of subject to~~
~~Adm. 1028~~
~~Handwritten notes~~
~~dis. 10/24/60, Atomic~~

THIS NATURE WILL BE EVALUATED AS POTENTIAL VIOLATIONS OF THE NUCLEAR WEAPONS SYSTEMS SAFETY RULES AND POSSIBLE PAL CIPHER SYSTEM COMPROMISES.

5. FOR FCDNA: THIS HQ FULLY SUPPORTS USAF PROPOSED CORRECTIVE ACTIONS AS OUTLINED IN REF E. REQUEST EVERY CONSIDERATION BE GIVEN TO PRIORITY RESPONSE TO THIS PROBLEM.

6. USEUCOM POINT OF CONTACT IS LT COL WOODS, ECJ3-CCD(PMCT), AUTOVON 497-0123/MILITARY DIAL 2729-6, EXT 6228/6149 OR SECURE 496-0123, EXT 6441.

BT
#2644
NNNN

ROUTINE

* ~~SECRET~~ *

~~3700145~~

PRIORITY

PTB 00132

70-2172:30

FORMERLY RESTRICTED
Handle with care
Atomic Energy Act of 1954
1915572

PTTCZYUW RUVKADAF151 1701602-CCCC--RUWTFBF
ZNY CCCCC
P 191557Z JUN 79
FM DIR SP WPNS HELLY AFB TX//SWFTR//
TO ECORNA KIRTLAND AFB NM//FCPSM//
BT

ATOMIC ENERGY

ACT 1954

SUBJECT: ONE-TIME DULL SWCRD 70954VDS79-5 (U)

REFERENCE: [REDACTED] A PROBLEM WAS REPORTED BY REFERENCED MESSAGE AS FOLLOWS:

1. [REDACTED] DURING INSTALLATION OF RESERVOIR ON W57-D UR, SER NO. 161898 THE RETAINING NUT P/N 229109-00 WAS OBSERVED MOVING CLOCKWISE WITH THE RESERVOIR DURING THE FINAL TORQUING PROCEDURE. THE TORQUING WAS STOPPED BEFORE A FINAL VALUE OF 210 INCH POUNDS WAS REACHED. THE RETAINING NUT SHOULD HAVE NOT BEEN MOVING AT THIS TIME AND WAS EXPECTED TO DETERMINE IF IT WAS TOUCHING EITHER THE RESERVOIR BASE OR WARHEAD COVER PLATE. THE RETAINING NUT WAS FOUND TO BE IN A POSITION MID-WAY BETWEEN THE RESERVOIR BASE AND WARHEAD COVER PLATE, AS REQUIRED IN PARA A3-3.5.4.65. AN ATTEMPT WAS MADE TO REMOVE THE 402597 BY TURNING THE RESERVOIR COUNTERCLOCKWISE UNTIL THE ROUND SLOTTED NUT (P/N 229110-00) WAS OBSERVED TURNING WITH THE RESERVOIR. CASE R RUVKADAF151 [REDACTED]

INITIALLY THE RESERVOIR COULD BE TURNED COUNTERCLOCKWISE FASTLY AND THEN BEGAN TURNING HARD. THE REMOVAL WAS STOPPED. PRESENTLY THE RESERVOIR IS PARTIALLY INSTALLED. THE RESERVOIR CAN BE LIFTED UP (LEAVING APPROXIMATELY A ONE EIGH INCH GAP BETWEEN THE SLOTTED NUT (P/N 229110-00) AND THE WASHER, FLAT (P/N 227018-00). THE WARHEAD REMAINS IN AN UNSEALED CONDITION.

2. [REDACTED] PROBABLE CAUSE: THE SLOTTED NUT (P/N 229110-00) WAS NOT BELOW THE TOP OF THE EXPLOSIVE ACTUATED VALVE PRIOR TO INSTALLATION. NO TECH DATA INSPECTION EXISTS TO INSURE THAT THE SLOTTED NUT IS BELOW THE TOP OF THE VALVE TO PREVENT CONTACT BETWEEN RESERVOIR BASE AND SLOTTED NUT. THE SLOTTED NUT APPEARS TO BE ACTING AS A LOCK NUT AGAINST THE RESERVOIR BASE.

3. [REDACTED] ACTION TAKEN: AS DISCUSSED WITH CAPT SHEPPARD/FCPSM AND SA-ALC/MR MR. FLOYD, A WARNING WAS GIVEN [REDACTED] TO REMOVE AND REINSTALL RESERVOIR. RESULTS OF THIS EFFORT WILL BE COORDINATED WITH YOUR ACTIVITY.

4. MTSAMY 70-2172R HAS BEEN ASSIGNED TO THIS REPORT.

5. [REDACTED] REQUEST WE BE ADVISED OF CORRECTIVE ACTION TO PRECLUDE RECURRENCE OF PROBLEM.

BT
#5151
4NNN

DNA
(62) (3)

ACTION	INFO
FCPSM	FJ
	FCPP
	FCPE
	FCZ
	DOE

PRIORITY

[REDACTED]

1184

PRIORITY

PTA 00213

085 2149:10

Adm
Hav
diss
Ener

PRTSYUM RUVMAA4013 0852145-5595 + RUMTFDF.

ZNY SSSSS

P 262130Z MAR 79

FM DIR NAT MGT MCCLELLAN AFB GA/MMSR

TO PCOMA KIRTLAND AFB NM/PCPS

BT

~~SECRET~~ ~~FORMERLY RESTRICTED DATA~~ ATOMIC ENERGY ACT OF 1954

SUBJ: F-111/B43 COMPATIBILITY (C)

REF: MY MMSR 192300Z MAR 79

THIS MESSAGE IS RE-TRANSMITTED FOR YOUR INFORMATION. QUOTE 1. REPORTED DULL SWORD FOR F-111E AIRCRAFT CONCERNED WITH ATTEMPTED RELEASE OF TWO B-43JTA WEAPONS. THE FIRST B43JTA WAS SUCCESSFULLY RELEASED FROM STATION 3 HOWEVER, A NUCLEAR CAUTION LAMP DISPLAY AFTER RELEASE PRECLUDED RELEASE OF B43JTA FROM STATION 6.

2. ADVISED THAT PROBLEM WAS NOT DETECTED DURING PREVIOUS INVESTIGATION OF THE F-111E/D/F B43 COMPATIBILITY PROBLEM AS THE INDICATION WAS MASKED BY THE PREVIOUS SYMPTOMS (CYCLING OF B43 READY/SAFE INDICATIONS).

3. ADVISED THAT THE TAF REQUIREMENT FOR CARRIAGE OF B43 WEAPONS COULD BE REDUCED TO TWO FOR F-111E/D/F AIRCRAFT.

4. AS A RESULT OF THE ABOVE, CARRIAGE OF B43 WEAPONS ON PAGE 2 RUVMAA4013

F-111E/D/F AIRCRAFT ARE AGAIN LIMITED TO ONE WEAPON ONLY. REQUEST ALL ACTIVITIES BE INCIPIED OF THIS RESTRICTION. SM-ALC/MMSR WILL CHANGE APPLICABLE FLIGHT MANUALS (-1) BY OPERATIONAL SUPPLEMENT.

5. INVESTIGATION OF THE MOST RECENT DULL SWORD REPORT INDICATES THAT A DEFICIENCY STILL EXISTS WITH THE B43 PULL OUT CABLE. COST DATA TO CORRECT THIS DEFICIENCY IS AS FOLLOWS: (A) DEVELOP NEW PULL OUT CABLE; COST \$5K/CABLE WITH 18 MONTH DELIVERY FOLLOWING AUTHORIZATION. (B) MODIFY EXISTING CABLE; COST \$500/CABLE WITH 18 MONTH DELIVERY FOLLOWING AUTHORIZATION. (C) MODIFY F-111E/D/F AIRCRAFT; COST \$750,000 WITH 20 MONTH KIT DELIVERY FROM AUTHORIZATION.

6. BASED UPON YOUR OPERATIONAL REQUIREMENTS AND THE EXTENDED LONGEVITY OF THE B43 WEAPON FOR TAF, REQUEST THE USER'S REVIEW THE ABOVE COST AND SCHEDULE INFORMATION AND DETERMINE IF A MODIFICATION IS WARRANTED. IF SO, WHAT PRIORITY SHOULD BE ASSIGNED TO THE TASK. A CAT I PRECEDENCE IS CURRENTLY ASSIGNED TO THE PROJECT. THEREFORE, YOUR REPLY IS REQUESTED BY 6 APR 79. UNQUOTE.

BDS 31 DEC 87.

BT

#4013

NNNN

~~SECRET~~

~~SECRET~~

PRIORITY

0005150

ROUTINE

FOIA [REDACTED]

12 MAR 75 13 48Z

BT 03971
ATTTCZYUW RUVKAGA1990 0711300-CCCC--RUWMHAF.*****

BTNY CCCCC
121235Z MAR 75
FM DIR SP WPLS KELLY AFB TEX/SVP
TO RUWMHAF/FC DNA KIRTLAND AFB NM/FCSM-0
RUWJABA/SA 50 NORTON AFB CA/NNR
INFO RUWJABA/OPERATING LOCATION SAN ANTONIO ALC NORTON
AFB CALIF/SWOSA

***** ATOMIC
ENERGY ACT 1954

DESC: COMBINED DULL SWORE [REDACTED]
REF SAMPY 75-0023R. REF 3096 VDS 072038Z MAR 75 (CFRD)
TITLE: 1. REPORT CONDENS Y62 MOD 0 WAR RESERVE WEAPON
SERIAL NUMBER 200807. DURING RECEIPT INSPECTION ANTENNA
MOUNT AT 270 DEGREE LOCATION WAS FOUND TO HAVE A 7/16 INCH
LONG BY 1/4 INCH WIDE BY 0.040 INCH DEEP VOID. APPARENT
CAUSE IS MISMILLING OF MANUFACTURING DEFECT. DEFECT EXCEEDS
ALLOWABLE TOLERANCE IN TO 11N-RV12-2. [REDACTED] WAS
REQUESTED TO REPLACE ANTENNA AND INSERT ASSY IAW PROCEDURES
REF TO 11N-462-3. DEFECTIVE ITEM WILL BE RETURNED TO THIS
OFFICE FOR ENGINEERING INVESTIGATION. RESULTS WILL BE FOR-
WARDED WHEN AVAILABLE.

DWA
(b)(3)

FCOC
FCSM
TA
FC
AEC

[REDACTED]

BTTEZYUW RUVKAD2775 [REDACTED]
ZNY EEEEE
R 170000Z NOV 77
FM DIR SP WPNS KELLY AFB TX/USAF
TO RUMTFB/EC DNA KISTLAND AFB TX/AFSC
INFO, RUMTFB/AFSC NSC KISTLAND AFB TX/AFSC
BT
UNCLAS

SUBJ: C/N NS 11-23-77

REPORTS FROM 220/M TRAILER PISTON ROD FAILURE WHILE
RAISING AGM-59/A LAUNCHER INSIDE INF. THE SIX MISSILE LOADS
LAUNCHER WAS BEING INSTALLED IN LAUNCHER LOADING FRAME, T.O.
1111-2-3-2CL-1, STEP 12. LAUNCHER WAS ELEVATED USING MWU-122/A
ALL STEPS UP TO STEP 12, T.O. 1111-2-3-2CL-1 WERE COMPLETED NOR-
MALLY. AS THE LAUNCHER WAS BEING RACED (9 AND 1/2 INCHES FROM
FULL UP POSITION) TO INSTALL RETAINING PINS, THE PISTON ROD BROKE
SENDING THE FAR SIDE OF THE LAUNCHER ADAPTER TO THE FLOOR CAUSING
THE LAUNCHER AND ADAPTER TO BE POSITIONED WITHIN THE TRAILER AT A
45 DEGREE ANGLE. TRAILER MECHANICAL LOCK RATCHET PLATE INDICATED
9 1/2 INCHES FROM FULL UP POSITION AND THE NEAR SIDE INDICATOR
READS 22 1/2 INCHES FROM THE FLOOR. EXTENT OF DAMAGE UNKNOWN.
EOP TEAM IN PLACE AND ACCEPTING. PISTON ROD FAILED IN TENSION.
PAGE 2 RUVKAD2775 UNCLAS E F T O
ADJACENT TO MIT, P/N TERA. SERIAL NUMBERS, VERIFICATION OF
NUMBER OF STORES INVOLVED WILL BE FORWARDED WHEN KNOWN.

BT
#2755
NNNN

DNA (6)(3)

ACTION	INFO
ECPSM	ECO

2

1

1

ROUTINE

file in SWACC 64

IMMEDIATE

PTA 00186

240 053700

OT ~~SECRET~~ RUEKJCS6493 24005370-SSSS-RUMTFB.

ZNY SSSSS

O 160530Z SEP 80

FM JCS WASHINGTON DC

INFO RUMTFB/FCONA KIRKLAND AFB TX

RUEBOMA/DMA WASHINGTON DC

RUCFAAA/FPA WASHINGTON DC

RUEAUSA/DCPA WASHINGTON DC

Z 160326Z SEP 80

FM 319BMR321SMW CP GRAND FORKS SD//JJ0074//

TO ZEN/SAC CP FORCE STATUS

ZEN/SAC CP//OPS/LOG/WX//

7EM/15AF CP//OPS/LOG/WX//

ZEN/15AF CP FORCE STATUS

7EM/58WR91SMW CP MINOT ND

RUEKJCS/JCS(NMCC) WASH DC

RUEAHOA/CSAF WASH DC

RUEKAAA/AFFOC FT RITCHIE MD

BT

~~SECRET~~ GRAND FORKS AFB JOPREP JIFFY0074/IN/FF B 10/

OPREP-3 PINNACLE BROKEN ARROW 15R

MINOT PASS TO 57AD/CC

PAGE 002 RUEKJCS6493 S E C R E T

AS OF TIME: 16/0302Z

DURING A GRAND FOPKS AFB AIRCRAFT EXERCISE, B-52H ASN 60059 CAUGHT FIRE. THE FIRE IS CONTAINED IN THE AREA OF THE NUMBER FIVE ENGINE. ALL OTHER ALERT BOMBERS AND TANKERS ARE CLEAR OF THE AREA AND OUT OF DANGER. CREW FROM THE DAMAGED AIRCRAFT IS CLEAR WITHOUT INJURIES. THERE ARE TWELVE WEAPONS ON BOARD THE AIRCRAFT. FURTHER INFORMATION WILL BE PROVIDED AS IT BECOMES AVAILABLE.

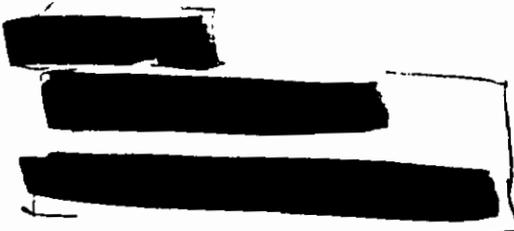
DECL: 15 SEP 86

BT

#6493

NNNN

BT	INFO
FCIP	ECD
	FCPSM
	FCPI
	FCI
	DOE



(b) (3)

UNCLASSIFIED

DATE 09/15/86 BY 0912/AM/PM

BY AUTHORITY OF JCS Wash, D.C.

87 005 24 FEB 1987

declass: OADR

IMMEDIATE

*

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1301-1
Acc/Sec
Maj/Brig Gen
Crews

PAGE 4 RUWTPFA8348 [REDACTED]

FROM DIKED AREA WILL BE IN SUCH
QUANTITIES AS TO ASSURE SAFE RELEASE.

1800-2400 CLEAN OUT INSIDE OF AIRCRAFT. PLASTIC
SHEETS WILL BE PLACED ON RAMP AND
DEBRIS CONTAINED ON PLASTIC AND BOUND
IN PLASTIC. THIS MATERIAL WILL BE
CONTINUOUSLY MONITORED UNTIL DETERMINED
SAFE OR DISPOSED OF AS HOT WASTE.

15 OCT 0001-0500 CLEAN OUT INSIDE OF AIRCRAFT.

0500-0700 REMOVE SHAPE (TRAINER-MARK 53)

0700-2400 WASH DOWN AIRCRAFT REMOVE ENGINES.

16 OCT 0001-1200 WASH DOWN AIRCRAFT-REMOVE ENGINES

1200-1800 REMOVE AIRCRAFT TO BURNING GROUNDS.

1800-2400 CONTINUE CLEAN UP-EXAMINE RAMP AND REPAIR

17 OCT 0001-0800 CONTINUE CLEAN UP-EXAMINE RAMP AND REPAIR

0800-1200 BURN AIRCRAFT.)

UNQUOTE GP-1

BT [REDACTED]

P-4

10-5-4700

IMMEDIATE

FORMERLY RESTRICTED DATA

IMMEDIATE

9877/10

PT 00300

UTTSZYUW RUEBDBA0098 0231330-SSSS--RUWSSBA.

ZNY SSSSS

0231329Z JAN 73

23 JAN 73 29z

FM HQ DNA WASH DC

INFO UNACC FLD COMD KIRTLAND AFB NMEX

0222323Z JAN 73

FM JCS

INFO CSA WASH DC

CNO WASH DC

DNA WASH DC

ANMCC FORT RITCHIE MD

[REDACTED]

TO SAC CP FORCE STAT

2AF CP FORCE STAT

SAC CP OPS/LOG

2AF CP OPS/LOG

CSAF

AFCC (AFCC)

AFMCC/FT RITCHIE

UNCLASSIFIED BY JIFFY 509BW/OPREP-3/BENT SPEAR 1081

UTTSZYUW RUEBDBA0098 0231330-SSSS--RUWSSBA.
UNCLASSIFIED BY JIFFY 509BW/OPREP-3/BENT SPEAR 1081

[REDACTED]

INFO UNACC FLD COMD KIRTLAND AFB NMEX

CSAF

CNO WASH DC

DNA WASH DC

PERSONNEL REPORT

CRUSHED 11 VOLT WIRE

AFCC

AFMCC

AFMCC/FT RITCHIE

AFCC

AFMCC (AFMCC)

NO EFFECT ON PUBLIC RELATIONS OR POLITICAL IMPLICATIONS AND NO EFFECT ON ALERT STATUS. THE TEAM CHIEF IN CHARGE AT THE TIME OF INCIDENT HAS BEEN DECERTIFIED, DISQUALIFIED AND PUT INTO A RETRAINING, RECERTIFICATION PROGRAM WITH EMPHASIS ON ADHERANCE TO TECH DATA. FULL DETAILS ON THE INCIDENT APPEARS IN THE BENT SPEAR 509BW 73-02 DTG 222100Z JAN 73 GDS-EXEMPT.

BT

#0098

NNNNZ

FORMERLY RESTRICTED DATA
[REDACTED]

[REDACTED]

[REDACTED] RESTRICTED DATA

IMMEDIATE

[REDACTED]

ECSW	
REF	1
INFO	52.2
A	3
D I	3
	4
	5
	X
	ABC
	3

DNA
(b)(3)

IMMEDIATE

S

UNCLASSIFIED

PT 00075

DATSZYUW RUEBDBA0528 0821821-5555--RUWSSBA.

ZNY 55555

O 231812Z MAR 73

FM DNA WASH DC

INFO UNACC/KIRTLAND AFB NM ✓

O 231727Z MAR 73

FM JCS

INFO RUEADWD/CSA WASH DC

RUEAAAA/CNO WASH DC

RUEBDBA/DNA WASH DC

RUEADWW/WHITE HOUSE WASH DC

RUEKCIA/CIA

RUEKAAA/ANMCC FORT RITCHIE MD

O 231702Z MAR 73

FM 28BW/44MW CP ELSWRTH/JJU039

TO ZEN/15AF CP FORCE STAT

ZEN/90SMW CP WARREN WY

ZEN/SAC CP FORCE STAT

ZEN/SAC CP OPS/LOG !L

ZEN/15AF CP OPS/LOG

RUEFHQA/CSAF

RUEKJCS/JCS (NMCC)

RUEKAAA/AFEOC/FT RITCHIE

[REDACTED]

JOPREP/JIFFY/PINNACLE/288/OPREP-3/BERT SPEAR/001

FEW PASS TO GEN FALL

REF: ELLW JJU039 230555Z

RESULTS OF URINALYSIS ALL NEGATIVE.

[REDACTED]

[REDACTED]

[REDACTED]

ECSB	
CMDR	F1
ADM QTF	F2.2
B A	F2.3
C	F3
D I	F3.3
BR	F3.4
BQ	F3.5
CR	RE X
NR ONE PAGE	

3

UNCLASSIFIED

~~SECRET~~

2724
6

[REDACTED] PAGE(S) 77

UPGRADE TO: CONF.

CONFIDENTIAL ON: 5 NOV 1977

CLASSIFY ON: 31 DEC 88

DECLASSIFIED BY:

AG/27 0009

IMMEDIATE

[REDACTED]

DATE

~~SECRET~~

IMMEDIATE

PT 00061

OATSZYUW RUERDRA1454 2001720-SSSS--RUWMHAC.

ZNY SSSSS

O 191715Z JUL 73

FM HQ DNA WASH DC

INFO JNACC FLD CMDR KIRTLAND AFB NM

O 191652Z JUL 73

FM JCS

INFO RUFAA/DND/CSA WASH DC

RUFNAAA/CNO WASH DC

RUERDRA/DNA WASH DC

RUFKAAA/ANMCC FORT RITCHIE MD

O 191649Z JUL 73

19 JUL 73 11 37z

5522/23

TO ZEN/SAC CP FORCE STATUS

ZEN/SAC CP LOGISTICS

ZEN/15AF CP FORCE STATUS

ZEN/15AF CP LOGISTICS

RUFEHRA/CSAF

RUFKJCS/JCS(NMCC)

RUFKAAA/AFFOC/FT RITCHIE

BT

[REDACTED] /JOPREP JIFFY/PINNAC [REDACTED] OPREP-3/MENT SPEAR

REPORT NUMBER 001

J-7 CONNECTOR ON MARK 12 WARHEAD IN WEAPON STORAGE AREA

FELL APART. SERIAL NUMBER 171091.

MENT SPEAR DECLARED AT 19/1630Z

BT

1400

[REDACTED]

DNA
(6)(3)

RUWMHAC

CONFIDENTIAL

19 JUL 73 0621

2.5

A

~~SECRET~~

[REDACTED]

IMMEDIATE

ROUTINE

PTA 00041

204 1334:54

~~CONFIDENTIAL~~
~~FORN DISSEM~~

9th FCivil

RTTCZYUW RUSNAAA1900 2841220-0000--RUWTFBA.

ZNY 00000

R 111020Z OCT 77

FM USCINCEUR WAIHINGEN GERMANY

TO RHFRAAB/HQ USAF RAMSTEIN AB GERMANY //USN/TFEW/COM// AFWL

INFO

POVKADA/DIR SPEC WPNS KELLY AFB TX //SWPTB//

RUWTFBA/DIR NUCLEAR SURETY KIRTLAND AFB NM //SNA//

RUWTFBA/FCDNA KIRTLAND AFB NM //FCPSM//

RUEFHQA/HQ USAF WASHDC //IGI//

RUVAAAA/HQ AFCL WPAFB OH //ZGY//

RUWTFBA/AFWL KIRTLAND AFB NM //NS//

RHFRAAB/7055 OPS SG RAMSTEIN AB GERMANY //DOON//

RHEGSNM/SANDIA LABS ALBUQUERQUE NM //1211//

BT

ACTION	INFO
FCPSM	FC D
	FC PP
	FC PF
	FCI
	EBA (DA)

ECJ3-SP 16435

SUBJECT: ~~CONFIDENTIAL~~ DULL SWORD REPORT 77-03 (PAL MalfunTION)

A. FCDNA 122046Z SEP 77 (CFC) (NOTAL)

B. USCINCEUR 221-5-2 SEP 77 (CFC)

C. USCINCEUR PAL PLAN 15 JAN 76 (SFC) (NOTAL)

1. (CFC) REF A AUTHORIZED ADDITIONAL CODE CHECK (NEW CODE)

PAGE 2 RUSNAAA1900

OF 867-2 S/N 15605 (REF FCDNA UR CODE 84757). REF B PROVIDES
DETAILS ON ADDITIONAL TEST.

2. (CFC) ON 27 SEP 77, EUCON PMCT ATTEMPTED REFERENCED
CODE CHECK WITH NEGATIVE RESULTS. AT END OF NORMAL
OPERATING TIME, ZERO LOCKED AND FAULT INDICATIONS WERE
RECEIVED. THEREFORE, SUBJ WEAPON WILL BE RETURNED TO
CONTRACTOR IAW PARA 23, REF B.

3. (CFC) FOR DSM/FCDNAS: REQUEST HQ USEUCOM BE KEPT
ADVISED OF POST MORTEN PROGRESS. FURTHER REQUEST EXPEDITIOUS
REPORTING OF PAL NUMERICS FOUND IN WEAPON IAW REF C.

NGDS2

BT

#1900

NNNN

36

ROUTINE

~~CONFIDENTIAL~~
~~FORN DISSEM~~

5504

ROUTINE

CONFIDENTIAL

PTA 00317

111 2005:50

JJA
~~CONFIDENTIAL~~

30

RTTCZYUW RUVKADA7666 1111915-CCCC--RUWTFBF RUWTFBA.

ZNY CCCCC

R 211015Z APR 77

FM DIR SP WPNS KELLY AFB TX/SWPTB

TO RUWTFBF/FC DNA KIRTLAND AFB NM/FCPSM

INFO RUWTFBA/AFLC NSO KIRTLAND AFB NM/LOWG

RUWTFBA/DIR NUCLEAR SURETY KIRTLAND AFB NM/SNA

BT

~~CONFIDENTIAL~~ ATOMIC ENERGY ACT 1954

SUBJECT C/N NS 4-19-77. DULL SWORD 77-0004. (U).

ACTIVITY ADVISES LOAD MONITORS WERE AWARE OF THE NOTE FOR STEP 28 PAGE 4-15 TO 1F-104G-1G-4-2 CONCERNING MOMENTARY ILLUMINATION OF THE WARNING LIGHT. THE WARNING LIGHT REMAINED ON FOR A PERIOD OF ABOUT 20 SECONDS BEFORE THE AMAC WAS TURNED OFF FOR ONE LOAD. THE LOAD MONITOR WHEN FIRST NOTING THE INDICATION TOLD ONE OF THE CREW MEMBERS TO GO AROUND THE AIRCRAFT AND CHECK THE READY-SAFE SWITCH. WHEN THE CREW MEMBER REPORTED A SAFE INDICATION THE LOAD MONITOR DIRECTED THAT THE AMAC BE TURNED OFF AND THAT THE LOAD STOP. THE OTHER TWO LOAD MONITORS REPORTED THAT THE LIGHTS WERE ON FOR APPROX TEN TO 15 SECONDS IN THEIR AIRCRAFT BEFORE PAGE2 RUVKADA7666 C O N F I D E N T I A L FRD THEY DIRECTED THAT THE AMAC SWITHC BE RETURNED TO THE OFF POSITION. ALL THREE LOAD MONITORS SAID THE LIGHTS WERE BRIGHT AND STEADY. ACTIVITY ADVISED THEIR HQ/LGW HAS CONFIRMED THAT THESE LOADS WERE THE FIRST TO USE THE COMBINATION OF F-104G/957-2/DCU-201/Z34/CF1776. THE LATTER IS TO BE CLARIFIED IN ANOTHER HQ MSG.

BT

#7666

NNNN

211015Z
FCSA
LOWG
SNA

ACTION	INFO
FCPSM	ECG
	ECPP
	ECRF
	ECI
	ERDA

ROUTINE

~~CONFIDENTIAL~~

2178

JSDW

FCISAC
LOWQ

00034

112 0047:14

BTTCZYUN RUVKADA7677 1112214-CCCC--RUWTFBF RUWTFBA.
NY CCCCC

R 212210Z APR 77

212210Z

FM DIR SP WPNS KELLY AFB TEX/SWPTB

✓ TO RUWTFBF/FC DNA KIRTLAND AFB NM/FCPSM

✓ INFO RUWTFRA/AFLC NSO KIRTLAND AFB NM/LOWQ

BT

~~CONFIDENTIAL~~ ATOMIC ENERGY
ACT 1354

SUBJECT: C/N NS 4-19-77. (U)

REF SWPTB 202115Z APR 77 AND SWPTB 211915Z APR 77.

MAJOR COMMAND ADVISES THIS WAS NOT THE FIRST
LOADING OF WR, 357 WPNS ON DCU 201/A37 EQUIPPED
F-104 AIRCRAFT. THEY HAVE DIRECTED FIELD UNITS
WITH SIMILAR EQUIPMENT TO BE PREPARED TO INSTALL
DCU-121/A'S FOR B57 COVERAGE.

BT

#7677

NNNN

Action | Info

FCPSM

FC D
FCPP
FCPF
FCI
ERDA

ROUTINE

~~CONFIDENTIAL~~

2181

ROUTINE

PTA 00025

202 1518:10

LFCSAM
AFWL

RTTEZYUW RUWTFDA0904 2021423-EEEE--RUWTFBA.
 ZNY EEEEE
 R 211240Z JUL 77
 FM 321SMW GRAND FORKS AFB ND/SE
 TO RUWTFBA/DIR NUCLEAR SURETHWD AFB NM/SNA ✓
 RUEFHQA/HQ AF WASH DC/IGI
 RUVARIA/AFLC WPAFB OH/IGY
 RUVKRIF/DIR SP WPNS KELLY AFB TX/SWPT
 RUWTFBA/AFWL KIRTLAND AFB NM/SEC ✓
 RUWJABA/SAMSO LOS ANGELES AFS CA/SE
 RUWJABA/SAMSO NORTON AFB CA/MNBS
 RUWTEKA/HQ SAC OFFUTT AFB NE/DOSM/LGM/LGW/LGBM
 AIG 682/SE/LGM/LGB/LGW/DC
 RUWTAEA/4235 ISDS CARSWELL AFB TX/OTSLT
 RUVHRIF/OGDEN ALC HILL AFB UT/MMSR
 BT

211240Z

~~REDACTED~~ SEE AFR 127-4 FOR RESTRICTIONS.

SUBJ: SUPPLEMENTAL 1/FINAL DULL SWORD, 321SMW 77-7

1. 14 JUL 77, 0027CDT LAUNCH FACILITY INDIA 40 (LF-I-40)
- 1.1 AFR 127-4, ATTACHMENT 1, PARA 16E.
2. AVAILABLE ON REQUEST.
3. LGM 306 WS133B (CDB)
- PAGE 2 RUWTFDA0904 UNCLAS E F T O FOUO
4. 447SMS, 321SMW, GRAND FORKS AFB ND.
5. STRATEGIC ALERT
6. AT APPROXIMATELY 1200CDT ON 13 JULY 77 THE MISSILE COMBAT CREW (MCC) ON DUTY NOTED THAT A LOSS OF CABLE PROCESSING (COR) HAD OCCURED AT I-40 DURING A AN ALCC TEST. SUBSEQUENTLY AT 0027CDT ON 14 JUL 77, A LOSS OF RADIO PROCESSING OCCURED. A SECURITY SITUATION 2D WAS DECLARED. THE ROR CLEARED AT 0131, 14 JUL 77 AND AT APPROXIMATELY 1300CDT 14 JUL 77, THE COR CLEARED AS A RESULT OF THE REPLACEMENT OF THE AMPLIFIER CONVERTER DRAWER (6406A6).
7. PROBABLE CAUSE: LOSS OF RADIO PROCESSING DURING THUNDERSTORM ACTIVITY IN CONJUNCTION WITH A LOSS OF CABLE PROCESSING DUE TO A DEFECT IN THE 6406A6 DRAWER. THE CAUSE OF THE DRAWER MALFUNCTION WAS A FAILURE OF THE MODE SWITCH FOR THE UHF CABLE DATA RECEIVER. THE FAILURE OF THIS COMPONENT IS CONSIDERED TO BE A RESULT OF FAIR WEAR AND TEAR.
8. REMOVED AND REPLACED AMPLIFIER CONVERTER DRAWER (6406A6).
9. N/A
10. N/A
11. N/A

PAGE THREE RUWTFDA0904 UNCLAS E F T O FOUO

28 Jul 77
No Inacc Action Required.
D.J. Keller
Major USMC

ROUTINE

~~TOP OFFICIAL USE ONLY~~

ACTION	INFO
FOPP	FCD

ROUTINE

- 12. NO/NONE WILL BE
 - 13. THOMAS D. BJERS, MAJOR CHIEF OF SAFETY AUTOVON 362-6120.
- BT
#0904
NNNN

~~FOR OFFICIAL USE ONLY~~

ROUTINE

PRIORITY

SUSPECTED DUPLICATE

PTA 00053

240 1328:13

UNCLASSIFIED

PATSZFDY RUEBD BA1156 240 1330 RWY [REDACTED] RWTFBF. ✓
 PATSZYUW RUEBD BA1156 240 1330 [REDACTED] RWTFBF.
 ZNY SSSSS
 P 281329Z AUG 77
 FM HQ DNA WASH DC
 INFO JNACC KIRTLAND AFB NMEX ✓
 O 281116Z AUG 77
 FM JCS
 INFO DNA WASHINGTON DC
 O 271718Z AUG 77
 FM 38IMW891RS CP MCCONNELL KS /JJ0049
 TO ZEN/SAC CP OPS/LOG/WX
 ZEN/8AF CP OPS/LOG/WX
 ZEN/SAC CP FORCE STATUS
 ZEN/8AF CP FORCE STATUS
 ZEN78W CP CARSWELL TX
 RUEFHQA/CSAF
 RUEKJCS/JCS(NMCC)
 RUEKAAA/AFEOC FT RITCHIE MD
 BT

JTC ✓
 JKC

281329Z

DISTRIBUTION: 9	
✓	FCSAC
	DAC

S E C R E T JOPREP JIFFY 0049/FFW890/IN/OPREP-3 BEELINE/049
 AT 2340Z BOTH DETONATORS ON SECONDARY LOCK OF CODED SWITCH SYSTEM,
 COMPLEX 533-04, DETONATED SPONTANEOUSLY. COMPLEX WAS IN PROCESS OF
 BEING CODED WITH OPERATIONAL CODE. SYSTEM WAS UNDER MOD. PELIMINARY
 INVESTIGATION INDICATES THAT DETONATORS BLEW ALMOST SIMULTANEOUSLY
 WITH EXECUTION OF STEP 5,T.O. 21H-LGM 25C-2-26-1,P 3-97, FIG 3-14
 PAGE 2 RUEKJCS0698 S E C R E T
 SYSTEM IS LOCKED UP. MISSILE IS PINNED DOWN FOR MINIMUM OF THIRTY-
 SIX (36) HOURS. FURTHER REPORTING WILL BE THROUGH SAFETY CHANNELS.
 (DULL SWORD)
 UMPRMK/CARSWELL PASS TO: 19AD/DO
 GDS-85
 BT
 #1156
 NNNN

SYSTEM

TITAN II
 JTC

ACTION	INFO
ECPP	FCD
	FCSM
	ECPE
	ECI
	ERDP

Incident Incident 1977

UNCLASSIFIED OR DECLASSIFIED
 (New Classification)
 BY AUTHORITY OF JCS
 (Under the Department)
 86 039 on 8 SEP 1986
 which authorized the change) (Eff date)

UNCLASSIFIED

PRIORITY

SUSPECTED DUPLICATE

*Some for ATB
will be included
in patches*

~~SECRET~~

AUTODIN 6014

RTTS JAZ RUWTPFAB348 2911731-SSSS--RUWJFOA.

ZNY SSSSS

R 181725Z

FM DSW KELLY AFB TEXAS

TO FC DASA SANDIA BASE ALBUQUERQUE NMEX

BT

ACTION	INFO
OP-7,8	SE-7 TG-19M DU-14,13,14 AM-15

~~SECRET RESTRICTED DATA~~ ATOMIC ENERGY ACT 1954/ SAWPTW 24830

OCT 65.

FOR FCOPS, MY SAWPTW 24780 14 OCT 65 NS10-3-65. SUPPLEMENTAL BROKEN

ARROW INFO FOLLOWS: QUOTE:

B. VISUAL IDENTIFICATION OF CANS INDICATES THERE ARE

[REDACTED]

F. (1) OF THE FIRST 28 SPOT URINALYSIS CHECKS REVEALS A MAXIMUM INDIVIDUAL READING URINE ACTIVITY OF TRITIUM TO BE 4-24 MICRO CURIES/LITER. MAXIMUM PERMISSABLE LIMITS FOR OCCUPATIONAL EXPOSURE IS 25.0 MICRO CURIES/LITER PER WEEK. (2) SWIPE TESTS OF

*DWA
(b)(3)*

~~SECRET~~
EXCLUDED FROM SCHEDULE 1
DECLASSIFIED
810-5-4700
2-1-1971

[REDACTED]

RESERVOIR CONTAINED ACTIVITY OF 3.76 MICRO CURIES PLUS OR MINUS 0.12 MICRO CURIES. SWIPE TESTS OF CAN CONTAINED TRITIUM ACTIVITY

*DNF
(6)(5)*

OF [REDACTED] MICRO CURIES. (3) SAMPLES OF FOAM FROM VARIOUS POSITIONS AROUND AIRCRAFT WERE TAKEN. THE HIGHEST READING WAS 25 MICRO CURIES/GM. THIS READING WAS AT LEFT REAR SIDE OF AIRCRAFT. (4) READINGS WERE TAKEN OF PERSONAL CLOTHING FROM APPROXIMATELY 100 PERSONNEL. THE TRITIUM SNIFFER REVEALED A MAXIMUM READING OF 30 MICRO CURIES/CUBIC METER. (5) TWO SWIPE TESTS WERE TAKEN FROM PAPER LOG SHEET FROM INSIDE AIRCRAFT. ONE READING WAS 4,650 PICO CURIES/14.2 SQUARE CENTIMETERS. OTHER SWIPE REVEALED 2,620 PICO CURIES/14.2 SQUARE CENTIMETERS. THIS IS EXTREMELY MINIMAL.

L. PRESENT PLANS ARE TO REPACK RESERVOIRS MENTIONED IN "B" ABOVE IN J. P. CONTAINERS AND REMOVE ALL NORMAL APPEARING UNITS TO SRP, ABNORMAL RESERVOIRS; (2 EACH AT PRESENT), WILL BE TAKEN TO MOUND LAB. J. L. WOMACK, DA. PONT AND ZOD PERSONNEL WILL BE REPACKING. SERIAL NUMBERS OF ITEMS WILL BE FORWARDED WHEN INFORMATION IS AVAILABLE.

PART II. PRESENT

SCHEDULE FOR C-124 AND ACCIDENT AREA DECONTAMINATION

(UNDER SUPERVISION/OBSERVATION OF BASE HEALTH

PHYSICS TEAM, AEC REPRESENTATIVES AND DNS PERSONNEL)

PJ [REDACTED]

10-5-47 00

[REDACTED]

PAGE 3 RUWTPFA8348

IS AS FOLLOWS;

14 OCT 0900-1100 AIRCRAFT ACCIDENT INVESTIGATION

BOARD CLEANING INFORMATION AT SITE.

THE AREA AROUND SITE BEING PREPARED

FOR CLEAN UP. CHARRED MATERIALS

& DEBRIS (LARGE PARTS) WILL BE

PLACED IN DEMSTER-DUMSTER, SMALLER

PORTIONS IN 50 GAL. DRUMS LINED WITH

POLYETHYLENE BAGS. MATERIAL WILL BE UNDER CONTINUOUS

SURVEILLANCE OF HEALTH PHYSICIST.

1200-1800

CLEAN UP OUTSIDE UNDER AND AROUND

AIRCRAFT. INCLUDES THE WASHING DOWN

OF RAMP AND THE OPENING OF AIRCRAFT

DOORS. WATER USED FOR WASHING DOWN

AIRCRAFT

AND SURROUNDING AREA WILL

BE FILTERED AND RAINED INTO A DIKED

AREA. THE CONTAINED WATER WILL BE

CONTINUOUSLY MONITORED BY BASE

10-5-47 00

~~SECRET~~

ANTIDIV 5514

REF JAZ RUMTPF43277 2881947-SSSS--RUMJFOA.

ZNY SSSSS

ZNY 140Z

FM AIR SPECIAL WEAPONS KELLY AFB TEX

TO HQ DASA SANDIA BASE ALBUQUERQUE NMEX

BT

ACTION	INFO
OP 7,8	SE-9 TG-10,11 DV-12,13,14 AM-15

~~SECRET~~ UNRESTRICTED DATA ATOMIC ENERGY ACT 1954/SAWPTW24783

ZNY 55

FOR FCOPS. 1. BROKEN ARROW (HW 7250TH ABW WPAFB EWE05316 13 OCT 55

RE-TRANSMISSION OF EWE 05273 12 OCT 55 ASSIGNED NS 10-3-65) IS FWD

FOR NECESSARY ACTION. SPECIAL HANDLING REQ'D BY AFR 127-4. QUOTE:

A. 12 OCT 1955 2045 EST, 0545Z, WPAFB, OHIO

B. (1)

CLASS "C" W EXPLOSIVES GENERATORS, PKD. IN METAL CONTAINERS

(.037NET EXPLOSIVE WT PER CONTAINER). (3) ONE MX 53 TRAINING

UNIT. OTHER INFO NOT AVAILABLE AT THIS TIME.

P-1

~~SECRET~~

4
10-5-59

~~SECRET~~

37

~~SECRET~~
~~CONFIDENTIAL~~

PAGE 2 RUTQBN 7 ~~CONFIDENTIAL~~

66; C00080, 29 JAN 66; C00085, 30 JAN 66; C00098, 31 JAN 66;
 C00111, 1 FEB 66; C00123, 2 FEB 66; C00134, 3 FEB 66; C00149,
 4 FEB 66; C00160, 5 FEB 66; C00174, 7 FEB 66; C00193; C00323,
 23 FEB 66; C00351, 27 FEB 66; C00370, 2 MAR 66; C00423, 7 MAR 66;
 C-00470, 14 MAR 66, THIS REPT COVERS REQUIREMENTS OF ATCH 4

AFR 127-4. GP-1.

- A. NO CHANGE.
- B. WEAPON NR. 4 MK 2841 MOD 2, SERIAL NUMBER 45345 HAS BEEN RECOVERED.
- C. NO CHANGE
- D. NO CHANGE
- E. NO CHANGE
- F. THE FOLLOWING IS TEXT OF TECHNICAL REPORT SUBMITTED FROM SITE BY MR. ASSELIN (SANDIA CORP) AND LT COL NEAL (AFINSE). THE BOMB WITH W28Y1 MOD 2 WARHEAD SERIAL NUMBER 45345, F 28-7 FUZE SERIAL NUMBER 62166 AND FISC 28-0 SERIAL NUMBER 34615 WAS LIFTED ABOARD RECOVERS SHIP USS PETREL AT 07/0741Z APR 66. NO CONTAMINATION ABOVE BACKGROUND LEVEL. MINIMUM ELECTRICAL SAFETY WAS PERFORMED AND WENT SMOOTHLY EXCEPT THERMAL BATTERY WAS JAMMED AND MUCH FORCE WAS REQUIRED TO REMOVE IT. METHOD USED WAS

P-3 ~~SECRET~~ 4-6-36-4

PAGE 3 RUTQEN 7

~~SECRET~~

TO DRILL INTO THE PACK, INSTALL A WOOD SCREW AND WASHER AND EXTRACT BY SPANISH WINDLASS AND PRYING WITH PINCH BAR AND SCREW DRIVERS. NO PARTICULAR DIFFICULTY DISCONNECTING ELECTRICAL PLUGS OR BOLTS. WEAPON WAS GENERALLY NOT CORRODED EXCEPT FOR SMALL BLISTERS ON TAIL SECTION. CORROSION MAY PROGRESS RAPIDLY NOW THAT WEAPON IS EXPOSED TO AIR. NOSE HAS LARGE DENT ON LOWER SIDE AND FOUR SMALL DENTS FORWARD OF THE FRONT RIVER LINE. FUZE SECTION SHOWS SOME BUCKLING, APPARENTLY DUE TO DEEP WATER PRESSURE. READY-SAFE SWITCH IN SAFE POSITION, PULLOUT RODS EXTRACTED AND MISSING. TAIL SECTION HAS TWO LONG GASHES THROUGH BOTH SKIN LAYERS ALONG EACH SIDE OF BOTTOM FIN. APPEARS THAT FIN WAS BENT INWARD, TAIL CLOSING PLATE AND RING FORGING FORCED OFF AND PARACHUTES DEPLOYED. 16 FOOT AND 64 FOOT CHUTES DEPLOYED AND ATTACHED TO SPIDERS. 64 FOOT CHUTE DEPLOYED DESPITE 16 FOOT CHUTE SHROUD LINE LOOPS HELD BY SPIDER. 64 FOOT CHUTE BAG MISSING. 60 INCH CHUTE ATTACHED. ONE FIN STILL IN PLACE, ANOTHER RECOVERED IN PARACHUTE, AND TWO MISSING. BOTH VELOCITY FENCE COVERS MISSING, ONE HAVING BEEN SEEN BY DIVERS PRIOR TO BRINGING ABOARD SHIP BUT CAME OFF BEFORE RECOVERY COMPLETED. RACK LOCKED INTO WEAPON LUGS AND BEAM ABOVE. IT BEAM WAS TORN FROM CLIP-IN AND WIRES CUT OR BROKEN. CHUTE

4-6-3694

~~SECRET~~

PAGE 4 RUTQBN 7

~~SECRET~~ ATOMIC ENERGY ACT 1954

ENTANGLED ABOUT RACK UPON RECOVERY. ELECTRICAL SAFING

COMPLETED AT 0913Z. MARKINGS OF MK, MOD, ALT DESIGNATIONS, SERIAL NUMBERS AND REAR OPENING COVERED WITH MASKING TAPE TO PERMIT SPANISH OFFICIALS TO INSPECT AND PRESS TO PHOTOGRAPH EXTERIOR OF WEAPON AS DIRECTED BY SECRETARY OF DEFENSE. RENDER SAFE AND PACKAGING IN SHIPPING CONTAINER ANTICIPATED TO BE COMPLETED BY 8 APR. MOVEMENT BY SURFACE VESSEL DIRECT TO US. PARACHUTE CANNED IN 55-GALLON DRUM AND MARKED FOR DELIVERY TO PANTEX. TRANSPORTATION ARRANGEMENTS WITHIN US UNKNOWN AT THIS TIME. NO PYROPHORIC EXPECTED BUT WARHEAD WILL BE COVERED WITH DRY SAND AS PRECAUTIONARY MEASURE.

G. NO CHANGE

H. NO CHANGE

J. NO CHANGE

K. NO CHANGE

L. SEE "F" ABOVE.

M. NO CHANGE

N. NO CHANGE

O. A.B. BRUBAKER, CAPT, DM4E, HQ 16AF, 3003.

GP-1.

BT

150/5

4-6-3694

~~SECRET~~ ATOMIC ENERGY ACT 1954

PUA279TUA068QTA119

OO RUWPUJ

DE RUTQEN 1 0791755

ZNY SSSSS 0 09175A Z

FM KRF TORREJON AB SPAIN

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAF

RUWMFNA/DIR NIC SFTY KIRTLAND AFB NM

RUWHNK/DEP INSPSFTY NORTON AFB CALIF

RUCSC/SAC

RUWGAA/2AF BARKSDALE AFB LA

RUEADH/8AF WESTOVER AFB MASS

RUWGHU/42AIRDIV BLYTHEVILLE AFB ARK

RUCQSL/822AIRDIV TURNER AFB GA

RUWGHU/97BW BLYTHEVILLE AFB ARK

RUEEFA/68BW SEYMOUR JOHNSON AFB NC

RUEBBAA/AFSC ANDREWS AFB MC

RUCDSQ/AFLVXRPAFB

RUVGNH/SAAMA KELLY AFB TEX

RUWMFNA/AFSC KIRTLAND AFB NM

RUWHML/OCAMA HILL AFB UTAH

RUVGNK/OCAMA TINKER AFB OKLA

RUWTBTA/DAD ATB EGLIN AFB FLA

RUWMFNA/AEC ALO KIRTLAND AFB NM

RUWPQS/SANDIA CORP SANDIA BASE NMEX

RUWPQL/LASL LOS ALAMOS NMEX

RURPXG/AEC DMA WASH DC

INX 0 RUWGSK/SAC OTSL CARSWELL AFB TEX

REGRADING: [REDACTED]

IMMEDIATE

ACTION | INFO

OP 7,8,9

DE-10
TG 11,12
DV 13,14,15
AM 16

[REDACTED] 10
[REDACTED] [REDACTED]

6-3895
WPNS DISP

P-1

[REDACTED]

ATOMIC ENERGY ACT 1946

~~SECRET~~
PBWL/USAFE CP

RUMPUJ/FC DASA SANDIA BASE NHX

RUTHBH/CHIEF JUSMG MAAG SPAIN

BT

~~SECRET~~ C 00107. APR 66.

SUBJ: REPORT OF NUCLEAR ACCIDENT (BROKEN ARROW). REF: PARA F,
16AF, SECRET RD/NOFORN MSG DC 12009, 7 APR 66, FINAL REPORT OF
NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF
AND AFIGO, AFFIS AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM,
DOSD; 2, 8, 42, 822AD (DO, DM, DS); 68 AND 97 BW (DCO, DCM, DS);
SCIZ; MASS; SVN; OOYS; JUSMG FOR GEN DONOVAN; FC DASA FOR FC OP
AND FCDV; AEC/ALO FOR MR. WHITE; SANDIA CORP, SANDIA BASE FOR
1540 AND 9320; LASL, LOS ALAMOS FOR DR. ROY; THIS CONTITUTES
ADDITION OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET

P-2
~~SECRET~~ 4-6-3895

PAGE 2 RUIQBN 1

RESTRICTED DATA MSG C00010, 23 JAN 66, C00028, 24 JAN, C00034, 1-6-5532
 25 JAN 66; C00041, 26 JAN 66; C00054, 27 JAN 66, C00066, 28 JAN 66; 1-6-5843 1-6-7009
 C00080, 29 JAN 66; C00085, 30 JAN 66; C00098, 31 JAN 66; C00111, 1-6-9151 1-6-9189 1-6-7210 2-6-3089
 FEB 66; C00123, 2 FEB 66; C00134, 3 FEB 66; C00149, 2-6-3185 2-6-3388 2-6-3458
 FEB 66; C00160, 5 FEB 66, C00174, 7 FEB 66; C00193, 2-6-3570 2-6-3646 2-6-3895
 C00323, 23 FEB 66; C00351, 27 FEB 66; C00370, 2 MAR 66, C00423 2-6-5790 2-6-5710 3-6-221 3-6-3725
 MAR 66; C00470, 14 MAR 66; DC 12009, 7 APR 66. FOLLOWING IS

TECHNICAL REPORT

COVERING THE FINAL SAFING AND PACKAGING ACTIVITIES

ON THE MK 28 BOMB RECOVERED NEAR PALOMARES SPAIN ON APRIL 7, 1966. FOLLOWING PHOTOGRAPHY OF THE WEAPON BY PRESS REPRESENTATIVES ON APRIL 8, 1966, THE WEAPON WAS DISASSEMBLED BY AIR FORCE AND NAVY EOD TECHNICIANS AND COMPLETION OF EODL 62-29 (AFTO 11A17-1-100-25) PROCEDURES TOOK PLACE. AN M530 SPANNER WRENCH WAS USED TO REMOVE LOCKING RING TO SEPARATE FUSE SECTION FROM WARHEAD. DIFFICULTY WAS EXPERIENCED STARTING THE RING TO TURN APPARENTLY BECAUSE OF SILT AND OTHER MATERIAL HEVING BEEN FORCED INTO THE THREADS. AFTER THIS WAS OVERCOME BY ADDED LEVERAGE, FUSE SECTION WAS REMOVED WITHOUT DIFFICULTY. WARHEAD FIRING SET PRESSURE COVER WAS DIFFICULT TO REMOVE BECAUSE WATER

4-6-3895
 FC/01660923

[REDACTED]

PAGE 3 RUTQBN 1 [REDACTED]

PRESSURE HAD CRUSHED COVER AROUND COMPONENTS INSIDE BEFORE SEAL LEAKAGE PERMITTED PRESSURE EQUALIZATION. POUNDING, PRYING, PULLING, AND SMALL AMOUNT OF CUTTING PERMITTED REMOVAL WITHOUT ANY SIGNIFICANT EFFECT ON THE COMPONENTS INSIDE. DETONATOR CABLES WERE DISCONNECTED WITHOUT DIFFICULTY. COMPONENTS WERE VISUALLY IN GOOD SHAPE. RESERVOIR THERMAL PLUG APPEARED UNDISTORTED. WHEN GLAND NUT WAS REMOVED A SMALL AMOUNT OF PRESSURE WAS RELEASED, POSSIBLY FROM SLOW EQUALIZATION OF THE VALVE CHAMBER WITH SEA WATER DURING THE LONG SUBMERGENCE. T290 MONITORING WAS NEGATIVE. IT APPEARED THAT THE CRUSHING OF THE PRESSURE COVER HAD CAUSED THE DIFFICULTY WITH THERMAL BATTERY REMOVAL ON THE PREVIOUS DAY. H530 WAS USED TO REMOVE LOCKING RING TO SEPARATE TAIL SECTION FROM WARHEAD AND NO DIFFICULTY WAS ENCOUNTERED. SPIDER ASSEMBLY WAS SEPARATED FROM TAIL SECTION AND DETONATOR REMOVED. ALL LOOPS FROM 16 FOOT AND 64 FOOT CHUTES WERE STILL ATTACHED IN NORMAL MANNER. LARGE AMOUNT OF MUD IN THIS AREA HAD MADE IDENTIFICATION OF THE 30 INCH STABILIZATION CHUTE DIFFICULT ON THE PREVIOUS DAY BUT IN DISASSEMBLY IT WAS FOUND PACKED IN ITS BAG IN NEAR NORMAL POSITION. EXAMINATION OF REAR OF WAR-

L4

[REDACTED]

4-6-3895

PAGE 4 RUTGER

WARHEAD INDICATED NO APPARENT DAMAGE EXCEPT CORROSION OF PORTION OF REAR CAP WHERE MUD HAD APPARENTLY SETTLED. SCHRADON VALVE IN LARGE CENTER BOLT WAS DEPRESSED AND SMALL AMOUNT OF WATER PUSHED BY HIGH GAS PRESSURE WAS RELEASED. AFTER PRESSURE WAS RELEASED, VALVE WAS REMOVED AND WARHEAD SOOD ON END TO DRAIN. VERY LITTLE ADDITIONAL WATER DRAINED OUT. VISUAL INSPECTION OF INTERIOR OF HOLE INDICATED VERY LITTLE MOISTURE LEFT. VALVE REINSERTED. APPARENTLY SEA PRESSURE FORCED WAER AROUND VALVE. GAMMA MONITORING DURING THIS OPERATION WAS NEGATIVE. PACKAGING OF THE WEAPON WAS CARRIED OUT AS ORIGINALLY PLANNED EXCEPT FOR THE PARACHUTES BEING SHIPPED IN A SEPARATE CONTAINER. THE WARHEAD WAS COVERED WITH SAND IN A WOOD BAFFLED CENTER SECTION OF THE J79 ENGINE CONTAINER AND THE REMAINING PORTIONS PUT IN THE END SECTIONS RESTING ON SAND AND BRACED WITH WOOD PIECES. BEAM FROM MHU 20C CLIP IN WAS UNBOLTED FROM MB-3 RACK. RACK WAS JAMMED AND LOCKED; SO IT WAS LEFT LATCHED TO THE WARHEAD AND COVERED WITH SAND DURING CONTAINER FILLING. CONTAINER, WITH VENTED COVER INSTALLED, WAS TRANSFERRED FROM USS PETREL DIRECTLY TO USS CASCADE DESTROYER TENDER AT APPROXIMATELY 1650 LOCAL. CONTAINER AND CONTENTS WILL RIDE

4-6-3895

[REDACTED]

PAGE 5 RUTQBN I S E C R E T RD NOFORN

IN THE OPEN ON A HIGH DECK. OPENINGS IN CONTAINER COVER HAVE BEEN SHIELDED TO PREVENT RAIN ENTRY WHILE PERMITTING VENTILATION. SHIPMENT IS DIRECTED TO PANTEX ORDNANCE PLANT, AMARILLO TEXAS. GP-1.

BT

P-4

4-6-3895

[REDACTED]

NNNN

[REDACTED]

[REDACTED]

^MFNA/ATTN LT COL FRED CHANTRY KIRTLAND AFB ALBQ NMEX /SERIES F/

RUWPUJ/COMMANDER FIELD COMMAND DASA SANDIA BASE NMEX /SERIES G/

RUWPUJ/ATTN CAPT ROBERT P HARLOW ECDV AND FCOP SANDIA BASE NMEX
/SERIES G/

ZEN/JOHN C DRUMMOND PLANT MGR MASON & HANGER PANTEX PLANT
AMARILLO TEXAS /SERIES B/

ZEN/D E MURPHY DIV SUPERVISOR SC 2126 PANTEX PLANT AMARILLO TEXAS
/SERIES B/

AEC
BT

~~SECRET~~ REFERENCE MY TWX DATED MAY 4, 1966

REGARDING DISASSEMBLY AND POST-MORTEM EXAMINATION OF THE FOUR WEAPONS
INVOLVED IN THE SPANISH ACCIDENT. THE FOLLOWING INFORMATION IS
PROVIDED AS A SUPPLEMENT TO THE REFERENCE AND IS TO ADVISE YOU OF
THE STATUS OF ACTIVITIES ACCOMPLISHED TO DATE:

UNIT NO. 4 (S/N 45345) AND ALL COMPONENTS ASSOCIATED WITH IT IN ITS
CONTAINER HAVE BEEN UNPACKAGED AND THE WARHEAD IS BEING RADIOGRAPHED.
NO CONTAMINATION HAS BEEN LOCATED ON UNIT NO. 4 THUS FAR AND AFTER
RADIOGRAPHY THE UNIT WILL BE HELD FOR DISASSEMBLY SCHEDULED TO BEGIN
MAY 9, 1966.

5-6-3420

P-2 [REDACTED]

PAGE TWO RUWPGM [REDACTED]

UNIT NO. 1. (S/N 54327) HAS HAD THE FUZE SECTION REMOVED AND THE WARHEAD IS BEING RADIOGRAPHED. THERE WAS ONE AREA LOCATED AT THE HOCKEY STICK THAT HAD DUST WITH A READING OF 250 COUNTS PER MINUTE. THIS AREA WAS DECONTAMINATED PRIOR TO THE UNITS BEING SENT TO RADIOGRAPHY.

THE SEPARATELY BOXED SHAPE COMPONENTS WERE UNPACKED AND CHECKED FOR CONTAMINATION. THE FOLLOWING CONTAMINATION WAS FOUND WITHOUT ANY DISASSEMBLY OF THE SHAPE COMPONENTS:

1. ONE PARACHUTE STRAP HAD READINGS OF 7000 CPM.
2. SAND LOCATED IN THE SHAPE COMPONENTS HAD A READING OF 5000 CPM.
3. THERE WERE SEVERAL AREAS AT THE BOLT HOLES WHICH HAD SAND IN THEM AND READINGS OF FROM 350 TO 500 CPM WERE OBTAINED.
4. THE WOODEN BOX THE SHAPE COMPONENTS WERE PACKED IN HAD SEVERAL PLACES IN ONE CORNER OF THE BOX WHERE READINGS OF FROM 300 TO 500 CPM WERE OBTAINED. THE 64 FOOT PARACHUTE APPEARED TO BE INTACT IN THE CASE SECTION (MC-1478) AND NO ATTEMPT WAS MADE TO REMOVE THE THE PARACHUTE TO SEE IF CONTAMINATED SAND HAD SIFTED INTO THE INNER AREAS.

I BELIEVE SUCCESSFUL DECONTAMINATION OF THE SHAPE COMPONENTS WOULD BE EXTREMELY DIFFICULT AND IMPRACTICAL. THEREFORE, I RECOMMEND NO

P-3 [REDACTED] 5-6-3420
[REDACTED]

RECEIVED
26 OCT 1966
FC TECH
LIBRARY

~~SECRET~~

GE THREE RUWPQM 9
OTHER CHECKS ON DISASSEMBLY BE MADE ON THE SHAPE COMPONENTS AND
AT THEY BE DISPOSED OF AT SOME DATE SUBSEQUENT TO MAY 9, 1966 BY
RIAL ALONG WITH THE OTHER ITEMS FROM UNIT NO. 1 FISC WHICH ARE
CKED WITH CONTAMINATED RESIDUE FROM UNITS 2 AND 3 (S/N 330448 AND
4379). I WOULD APPRECIATE BEING NOTIFIED BY ANY ADDRESSEE WHO
SAGREES WITH THIS RECOMMENDED ACTION, WHAT HIS ORGANIZATION'S
SIREs ARE BY COB MAY 10, 1966. END REF: AAO/PMR

0-4
CUP ONE

~~SECRET~~

5-6-3420

~~SECRET~~

COMM

2143

IMMEDIATE

DASA 00336

EUL165EUH282CEC896

OO RUEPWZ

20 JAN 1966

DE RUTQBN 14 0201520

ZNY SSSSS

O 201502Z

THIS DOCUMENT CONSISTS OF 1 PAGE(S)
NO. OF COPIES, SERIES 4

FM 16AF TORREJON AB SPAIN

TO RUEPXG/ AEC WASH DC

RUEPWZ/FC DASA

RUEPWZ/DASA

RUWPQA/AEC ALBUQUERQUE OPERATIONS OFFICE

RUWPQL/DIRECTOR LOS ALAMOS SCIENTIFIC LABORATORY

RUWPQS/PRESIDENT SANDIA COPORATION

BT

~~SECRET~~ FORMERLY RESTRICTED DATA DC 00022 JAN 66. ATTN:

DNA AEC WASH DC . ATTN: W.R. HOAGLAND SANDIA CORPORATION.

PART ONE OF FOUR. FROM COLONEL W.E. GERNERT. FOLLOWING IS AEC OBSERVER TEAM STATUS REPORT ON WEAPONS IN B-52/KC-135 ACCIDENT AT PALOMARES, SPAIN. AS OF THIS TIME THREE OF FOUR MARK 28 FI WEAPONS HAVE BEEN FOUND IN CONDITION AS DESCRIBED BELOW:

WEAPON ONE (WH54327): RELATIVELY INTACT AFTER IMPACT IN REMOTE AREA. THREE TAIL FINS MISSING, PILOT CHUTE PULLED OUT, NOSE PARTIALLY CRUSHED, RACK ATTACHED TO LUGS, READY SAFE SWITCH IN SAFE POSITION.

DNA
(b)(3)

WEAPON TWO: APPARENT LOW ORDER DETONATION ON IMPACT IN A REMOTE AREA. [REDACTED] POUNDS OF HE RESIDUE RECOVERED. THE TAIL WITH PILOT CHUTE PULLED OUT AND GROUND IMPACT DAMAGE FOUND APPROXIMATELY 100 FEET BACK ON TRAJECTORY PATH. THE PIT HAS NOT BEEN FOUND. THE SECONDARY WAS

FOUND [REDACTED] RESERVOIR FOUND ON EDGE OF IMPACT CRATER-- CONDITION UNKNOWN. SOME FUZING

(7)

AND FIRING COMPONENTS RECOVERED INCLUDING READY SAFE SWITCH

POSITION OF READY SAFE TCH CAN ONLY BE DETERMINED BY LATER POST MORTEM.

WEAPON THREE: APPARENT LOW ORDER DETONATION ON IMPACT WITHIN 200 FEET OF INHABITED STRUCTURES. [REDACTED]

[REDACTED] POUNDS OF HE RESIDUE RECOVERED. ONE RUPTURED RESERVOIR BELIEVED TO BS FROM THIS WEAPON AND APPROXIMATELY ONE THOUSAND YARDS FROM WEAPON IMPACT POINT. NO FUZING AND FIRING COMPONENTS RECOVERED AS YET.

PART TWO. ALPHA COUNTS IN ONE OF THE IMPACT CRATERS (WEAPON 2 OR 3) HAVE BEEN RECORDED AS HIGH AS 450,000 CPM. THE OTHER CRATER HAS ALPHA READINGS, BUT PRECISE FIGURES NOT AT HAND AS THIS MESSAGE IS PREPARED.

*DNA
(b)(3)*

PART THREE. THE SEARCH IS CONTINUING FOR THE FOURTH WEAPON UTILIZING APPROXIMATELY 400 PERSONNEL ON FOOT, ALL AVAILABLE AIRCRAFT, AND AT LEAST ONE NAVY VESSEL.

PART FOUR. WEAPON RESIDUE FROM THREE WEAPONS ARE TO BE SHIPPED VIA TRUCK TO SAN JAVIER, THEN BY AIRCRAFT TO TORREJON AIR BASE FOR REPACKAGING AS NECESSARY. COMMUNICATIONS FACILITIES EXTREMELY LIMITED AT THE ACCIDENT SCENE WHICH REQUIRES DELIVERY OF CLASSIFIED MESSAGES TO TORREJON FOR TRANSMISSION TO THE CONUS. GP1.

BT

[REDACTED]

*EXCLUDED FROM
DECLASSIFICATION*

*SPECIAL HANDLING REQUIRED
NOT RELEASABLE
[REDACTED]*

*FORMERLY RESTRICTED DATA
[REDACTED]*

(8)

SECTION [REDACTED] FC [REDACTED]

~~SECRET~~

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TO ZEN/JOINT CHIEFS OF STAFF WASH D C

RUEPWZ/DIRECTOR DASA WASH D C

GRUWPUJ/JOINT NUCLEAR ACCIDENT COORDINATING CENTER SANDIA BASE N M

RU CKPG/U S NAVY EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD

MARYLAND

INFO RUCSC/SAC

BT

[REDACTED]	
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*This is submitted to
Navy & AEC TAD 24 Jan 66*

~~RESTRICTED DATA~~ /// ATOMIC ENERGY ACT OF 1954 ///

SECTION 1 OF 2 AFSSSG 85584 JAN 66. SUBJECT: SUPPLEMENTAL REPORT NUMBER 4 OF NUCLEAR ACCIDENT; REPORT CONTROL SYMBOL DD-SD(AR)382. REFERENCES AFSSSG 84803, 84948, 85032 AND 85388, JAN 66. FOLLOWING REPORT IS SUBMITTED IN ACCORDANCE WITH SECTION IV, DEPARTMENT OF DEFENSE INSTRUCTION NO. 7730.12 DATED JULY 27, 1962, AND SEC DEF MSG DEF 1972 FROM ATSD (AE). THE FOLLOWING REPRESENTS UPDATED INFORMATION AS OF 2100Z, 20 JANUARY 1966: 1. STATUS OF SEARCH:

A. A TAIL CLOSING PLATE ATTACHED TO THE AFT RING OF THE MDF (MILD DETONATING FUZE) HOUSING, AND IDENTIFIED AS A PART OF WEAPON NO. 3, WAS FOUND WITHIN THE DISASTER CONTROL BIVOUAC AREA. EFFORTS WILL BE MADE TO DETERMINE WHETHER IT WAS BROUGHT IN BY A SEARCHER OR CAME TO REST AT THE POINT WHERE FOUND. THE POINT IN QUESTION IS SITUATED ABOUT 100 YARDS FROM THE B-52 TAIL SECTION AND LIES GENERALLY BETWEEN THE WEAPON FOUND NEAR THE BEACH AND THAT WHICH IMPACTED IN THE

[Handwritten scribbles and marks]

RING HAD PULLED AWAY FROM THE PARACHUTE HOUSING AREA. THE RING WHICH ATTACH THE RING TO THE HOUSING. BASED ON INFORMATION FROM 68TH BOMB WING, THIS WEAPON WAS LOADED ON LOWER LEFT. THE WEAPON IMMEDIATELY ABOVE IT HAS BEEN IDENTIFIED AS THAT FOUND NEAR THE BEACH AND IS THE FIRST ON THE AIRCRAFT'S PROJECTED FLIGHT PATH. THE NEXT WEAPON ON THIS PATH IS THE ONE WHICH IMPACTED IN THE VILLAGE OF PALAMARES. ITS POSITION WAS THE LOWER RIGHT. THE WEAPON FARTHEST DOWN THE FLIGHT PATH, AND WHICH IMPACTED IN THE HILLS BEYOND PALAMARES WAS LOADED ON THE UPPER RIGHT. ASSUMING THE TAIL CLOSING PLATE IN QUESTION CAME TO REST WHERE FOUND, THE POSSIBILITY THAT WEAPON FOUR IMPACTED IN THE WATER OFFSHORE IS ENHANCED. B. INTERROGATION OF WITNESS REPORTED TO HAVE OBSERVED PARACHUTES IS CONTINUING. SEARCH IS CONTINUING WITH MINE-SWEEPER ASSISTANCE EXPECTED BY 0730Z 21 JANUARY 1966. 2. STATUS OF RECOVERED WEAPONS: A. THE FOLLOWING DESCRIBES CONDITION OF THE WEAPON LOCATED NEAR THE BEACH: (1) THE ARM-SAFE SWITCH WAS INDICATING "SAFE". (2) LOADING LUGS WERE STILL ENGAGED IN THE MB-3 RELEASE MECHANISM. (3) THE TAIL CLOSING PLATE HAD TORN AWAY FROM THE REAR CASE AND THE PILOT CHUTE HAD DEPLOYED. RING AT END OF CASE HAD NOT BEEN PULLED AWAY. (4) BOMB NOSE DEPRESSED INWARD, SLIGHTLY, FROM IMPACT. (5) THREE OF THE FOUR BOMB FINS WERE TORN AWAY AND MISSING: (A) THE THREE FINS AND TAIL CLOSING PLATE HAVE NOT BEEN FOUND. (6) RSP ACCESS WAS MADE INTO BATTERY COMPARTMENT. BATTERY WAS REMOVED. TRITIUM MONITORING PROVED NEGATIVE. ALPHA MONITORING PROVED NEGATIVE. (7) THE WEAPON AND PARACHUTE ASSEMBLIES WERE SEPARATED AND INDIVIDUALLY LIFTED BY HELICOPTER INTO TRANSPORT TRUCK. (B) FOLLOWING PERTAIN TO WEAPON WHICH IMPACTED IN VILLAGE OF PALAMARES: (1) HIGH EXPLOSIVE WAS EXPERIENCED LOW ORDER DETONATION (APPROXIMATELY 10 PCT OF HE WAS COVERED IN SMALL PIECES AND SLIVERS). (2) SECONDARY WAS IN THE CRATER.

[REDACTED] CRATER WAS ABOUT 20 FEET ACROSS AND SIX FEET DEEP. (3) THE TRITIUM BOTTLE HAD BEEN BLOWN INTO THE POTTING MATERIAL OF THE FIRE SET. BOTTLE RECOVERED A975 25 FEET FROM CRATER.

DNA
(b)(6)
13

ANAY. THE MDT HAD FUNCTIONED AND THE PILOT CHUTE

MAIN CHUTE WAS OUT OF THE RUPTURED UPPER BODY CHUTE

CHUTE COVER. (5) FRAGMENTS OF THE WEAPON CASE WERE

HUNDRED YARDS IN ALL DIRECTIONS FROM THE CRATER. (5)

OF: (A) SECONDARY -

(B) WEAPON CASE IN PIECES, RANGING IN SIZE FROM 1/2

1 INCH DIAMETER. (C) TRITIUM BOTTLE - MASHED INTO

AND PARTS OF FIRE SET WAS BENT AND MASHED BUT APPEARED

(D) WEAPON AFTERBODY - BENT AND MANGLED FROM EXPLOSION

(E) PARA-PACK - MAIN CHUTE STILL IN CANVAS BAGS;

OUT BUT INTACT. (F) HIGH EXPLOSIVE RECOVERED

PIECES - CHIPS, SLIVERS).

C. FOLLOWING RELATES TO WEAPON WHICH IMPACTED IN HILLS BEYOND

PALAMARES: (1) AFTERBODY FAIRLY INTACT WITH PILOT CHUTE DEPLOYED.

(2) SECONDARY IN SMALL CRATER 3-5 FEET ACROSS; 3 FEET DEEP.

(3) HIGH EXPLOSIVE IN PILE ON EDGE OF CRATER EXCEPT FOR SOME SMALL

PIECES SCATTERED OVER 300 FEET RADIUS.

(4) WEAPON CASE AND INTERNAL

WEAPON PARTS BADLY BROKEN UP AND MANGLED BY IMPACT AND

(5) RECOVERY WAS MADE OF: (A) SECONDARY - CRACKED BUT INTACT

FOR SMALL PIECE BROKEN OUT (B) TRITIUM BOTTLE

MASHED AND RUPTURED. FOUND ABOUT 1500 FEET FROM IMPACT

(C) HIGH EXPLOSIVE - RECOVERED IN SMALL CRATER

INTERNAL PARTS - FRAGMENTED. PIECES RANGE FROM APPROXIMATELY

FEET ACROSS TO AS SMALL AS TWO INCHES ACROSS. (D) AFTERBODY

BUT BENT BY IMPACT AND DETONATION. (E) PARA-PACK - INTACT

INTACT AND INSIDE AFTERBODY. PILOT CHUTE DEPLOYED, SCARF

TIALLY BURNED. (D) WEAPONS AND DEBRIS, EXCEPT FOR TAIL CLOSING

FOR WEAPON FOUR, ARE IN TRANSIT TO TORREJON. REPACKING WILL BE

PLISHED WITH ASSISTANCE OF AEC PERSONNEL AND ITEMS AIRLIFTED TO

5. STATUS OF RADIATION COUNT AND ACTIONS: A. PAC ONE "S" MONITORING

CONCENTRIC CIRCLES ABOUT IMPACT SITE IN VILLAGE OF PALMARES ON

DNA
(1)(3)

FROM IMPACT POINT, READINGS WERE 45,000 CPM AND AT 300 FEET
AT POINT OF IMPACT WAS 600,000 CPM. FORMS OF METAL PARTICLES
DEGREE AND METAL PARTICLES ARE PREDOMINANTLY OF THE
READINGS ON 20 JANUARY REFLECTED A SIGNIFICANT INCREASE IN CPM
WITH A HIGH OF 490,000 AT 30 FEET ON AN AZIMUTH OF 130 DEGREES
READING ON THE 80 DEGREE AZIMUTH AT SIXTY FEET WAS THE
HIGHEST READING ON THAT AZIMUTH OF 130,000 AT 30 FEET

BT

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DECLASSIFICATION~~

~~RESTRICTED DATA~~

~~FOIA 2120 000~~

PRIORITY

SECRET

23 JAN 66 02 27

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HQS, DASA

PP RUEPWZ

DASA 00295

DE RUEAHQ 184 0212107

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FM CSAF

TO ZEN/JOINT CHIEFS OF STAFF WASH DC

RUEPWZ/DIRECTOR DASA WASH DC

RUEWPUJ/JOINT NUCLEAR ACCIDENT COORDINATING CENTER SANBIA

RUCKPG/US NAVY EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD

MARYLAND

INFO RUCSC/SAC

BT

/// ATOMIC ENERGY ACT OF 1954 ///

FINAL SECTION OF 2 AFSSSG 85584 JAN 66.

ACTIONS AND PRECAUTIONS INDICATED IN MESSAGE OF 19 JAN

ARE CONTINUING. ADDITIONALLY, SPANISH AEC AUTHORITIES ARE PRESENT

WITH A MOBILE LABORATORY AND AEC TESTING VILLAGE PERSONNEL, MONITORING

WATER, AND SOIL. AS FAR AS IS KNOWN AT THIS TIME, NO SERIOUS

LEMS HAVE DEVELOPED. DECONTAMINATION TO INCLUDE SCRAPPING AND REMOVAL

OF SOIL, LEACHING, ETC. WILL BE ACCOMPLISHED. DECONTAMINATION

SPANISH AUTHORITIES IS BEING EFFECTED. SAC

IMPACT POINT IN HILLS BEYOND PALAMARES ON 19 JANUARY REVEALED

READING OF 210,000 CPM AT 15 FEET. WHILE THIS AREA IS UNIMPAIRED

HAS LITTLE IN THE WAY OF VEGETATION, IT WAS NOTED THAT GOATS ARE

HERDED IN THE GENERAL VICINITY OF THE IMPACT. DECONTAMINATION MEASURES

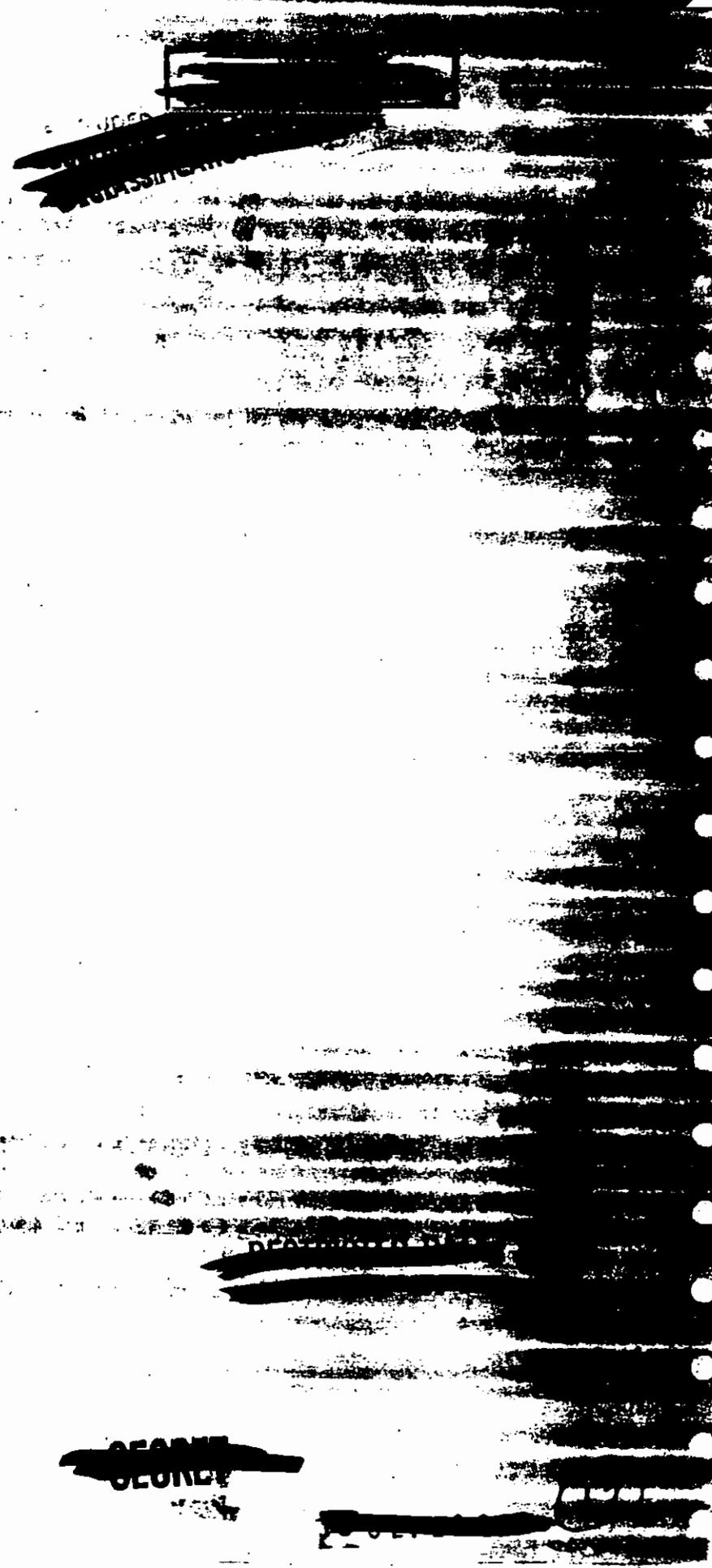
REQUIRED NOT YET DETERMINED. C. URINE SAMPLES HAVE BEEN OBTAINED

FROM EOD RADIOLOGICAL PERSONNEL FOR ANALYSIS. READINGS ON SHOES ON

CLOTHING HAVE NOT EXCEEDED 15,000 CPM. AIR SAMPLES OF COMMAND POST

PERSONNEL WERE SENT TO LABORATORY FOR ANALYSIS

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PRIORITY

COMMGEN 2483

21 JAN 66 00 59

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PP RUEPWZ

DE DE RUEAHQ 328 0202232

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FM CSAF

DASA 00354

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TO ZEN/JOINT CHIEFS OF STAFF WASHDC

RUEPWZ/DIRECTOR DASA WASHDC

RUWPUJ/JOINT NUCLEAR ACCIDENT COORDINATING CENTER SANDIA BASE N M

RYCJOG/US NAVY EXPLOSIVE ORDNANCE DISPOSAL FACILITY INDIAN HEAD MARYLAND

INFO RUCSC/SAC

BT

~~RESTRICTED DATA~~ /// ATOMIC ENERGY ACTO OF 1954 ///

AFSSSG 85388 JAN 66. SUBJECT: SUPPLEMENTAL REPORT NUMBER 3

OF NUCLEAR ACCIDENT; REPORT CONTROL SYMBOL DD-SD(AR)382. REFERENCES

AFSSSG 84803, 84948 AND 85032, JAN 66. FOLLOWING REPORT IS SUBMITTED

IN ACCORDANCE WITH SECTION IV, DEPARTMENT OF DEFENSE INSTRUCTION NO.

7730.12 DATED JULY 27, 1962, AND SEC DEF MSG DEF 1972 FROM ATSD(AE).

THE FOLLOWING REPRESENTS UPDATED INFORMATION AS OF 1545Z, 19 JAN 66.

AIR AND GROUND SEARCH CONTINUES FOR FOURTH WEAPON. TWO REPORTS OF

SPANISH CIVILIANS ARE BEING INVESTIGATED. ONE OF THESE, A REPORT BY

A FISHERMAN, WOULD INDICATE THAT WEAPON STRUCK WATER ABOUT FIVE

MILES OFF SHORE AND SANK. IN THE LIGHT OF AIRCRAFT DEBRIS PATTERN

THIS IS POSSIBLE. ANOTHER IS A REPORT BY A SHEPARD WHO WAS SITUATED

IN THE HILLS NEAR THE CRASH. HE REPORTS HAVING SEEN A WHITE DOUBLE

PARACHUTE OF A VERY LARGE SIZE WITH AN OBJECT DANGLING FROM IT. THIS

TOO IS POSSIBLE AND INTERROGATION PERSONNEL ARE CONTACTING WITNESSES.

WEAPON REFERRED TO IN 16 AFSSSG 85032, PAC A, HAS BEEN RECOVERED

AND IS LOADED ON TRUCK WEAPON IN PARA B CITED MSG ALONG WITH ALL

PHOTOGRAPHS

⑨

...ED BE FOUND, IS ALSO LOADED. WEAPON IN PARA C. ...
...READY FOR LOADI. AND AWAITING ARRIVAL OF 1 CR. THERE ARE NO
ROADS. IS. THIS AREA OF VERY STEEP AND ROCKY HILLS. USE OF HELICOPTER
FOR RECOVERY WAS CONSIDERED UNDESIRABLE SINCE DUST COULD SPREAD CONTAM-
INATION AND HELICOPTER WOULD OF NECESSITY PASS NEAR GARDEN PLOTS IN
AREA. EXPECT TO REMOVE WEAPON AND DEBRIS BY 1100Z, 20 JANUARY. ALL MA-
TERIAL WILL BE TRUCKED TO SAN JAVIER ON THE AFTERNOON OF 20 JANUARY
AND IMMEDIATELY LOADED ABOARD WAITING C-124 FOR TRANSPORTATION TO
TORREJON. MATERIAL WILL BE PLACED IN AN IGLOO ALREADY CLEARED FOR
THAT PURPOSE. CHARGING AND DISPOSITION WILL BE IN BERDANCE WITH EX-
ISTING DIRECTIVES. THE ONLY DAMANGE TO PROPERTY IS IN THE VILLAGE OF
PALAMARES WHICH HAS A POPULATION OF ABOUT 300 PERSONS. ONE WEAPON IM-
PACTED IN A GARDEN PLOT WITHIN THE VILLAGE WITH A LOW-ORDER DETONATION
OF A PORTION OF THE HE. A DOOR OF A NEARBY HOUSE IS REPORTED TO HAVE
BEEN BLOWN IN. NO PERSONNEL WERE INJURED. EXACT READINGS ARE BEING
TAKEN IN CONCENTRIC CIRCLES ABOUT THE POINT OF IMPACT TO INSURE PRECISE
PLOTTING OF RADIATION COUNT. BIO-ENVIRONMENTAL PERSONNEL HAVE ADVISED
THAT THERE IS NO HAZARD TO PERSONNEL IN AREA EXCEPT THROUGH
INGESTION OF CONTAMINATED VEGATABLES OR ANIMALS WHICH HAVE EATEN
CONTAMINATED VEGETATION. WITH THE ASSISTANCE OF THE GUARDIA CIVIL
AND THE VILLAGE MAYOR, STEPS HAVE BEEN TAKEN TO KEEP ALL PERSONNEL
OUT OF THE HAZARDOUS AREA. ADDITIONALLY, CROPS AND ANIMALS BELIEVED
CONTAMINATED ARE BEING PURCHASED WITH CASH PAYMENTS TO OWNERS. CRASH
AREA IS QUITE REMOTE. CLOSEST TELEPHONE TO VILLAGE OF PALAMOARES IS AT
CUEVAS DE ALMAZORA, ABOUT 30 MINUTES DISTANCE BY JEEP. PEOPLE ARE
QUITE CURIOUS AND MOST, AT LEAST AT THE PRSENT, SEEM TO ENJOY THE
EXCITEMENT. IT IS DOUBTFUL THAT MANY UNDERSTAND THE NUCLEAR ASPECTS
OF THE CRASH; HOWEVER, THEY APPRECIATE THAT THE SITUATION IS UNUSUAL.
PERHAPS THE FOLLOWING WILL CAST SOME LIGHT ON ATTITUDE OF PEOPLE AND
OFFICIALS. THE MAJOR, HAVING NOTICED THE EXTENSIVE USE OF DETECTION
EQUIPMENT, ASKED FOR A CHECK OF HIS HANDS. A LEADING VILLAGE CITIZEN
WITH HIM ASKED THAT HIS HAIR BE CHECKED. CHECKS WERE VISIBLY NEGATIVE

(10)

PC 272085

~~DEPARTING JOKING ABOUT THE GRAY HAIR OF ONE OF THEM. THIS REPORT~~
TO SAY THAT THERE IS NO CONCERN AND THAT THERE WILL NOT BE SURPRISE
EXCITEMENT DIES DOWN. IT WAS NOTED THAT SPANISH CIVILIANS AND GUARDIA
CIVIL REFERRED TO THE WEAPONS AS MISSILES RATHER THAN BOMBS. THE
GUARDIA CIVIL AND THE SPANISH AIR FORCE HAVE BEEN EXTREMELY HELPFUL
AND ANXIOUS TO SUPPORT THE EFFORT. THE ABOVE INFORMATION WAS
RETURNED FROM THE CRASH SITE BY MAJOR GENERAL BECK, HQ SAC.
SPANISH AEC PERSONNEL ON SITE 16AF HEALTH PHYSICIST ASSISTING
THEM IS SETTING UP URINANALYSIS CHECK OF SPANISH PERSONNEL WHO
LIVE IN PROXIMITY TO ONE IMPACT AREA IN THE PUEBLO OF PALOMARES.

GP-1.

BT

~~GROUP 1
EXCLUDED FROM AUTOMATIC
DECLASSIFICATION~~

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11

PRIORITY

COMMEN 2432

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PP RUEPWZ

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FM CSAF

TO ZEN/JOINT CHIEFS OF STAFF WASH D C

[REDACTED] THIS DOCUMENT CONSISTS OF [REDACTED] COPIES, SERIES A

RUEPWZ/DIRECTOR DASA WASH D C

~~RUEPWZ~~/JOINT NUCLEAR ACCIDENT COORDICATING CENTER SANDIA BASE NM

RUCKPG/US NAVY EXPLOSIVE ORDNANCE DISPOSAL FACILITY ICDIAN HEAD MD

INFO RUCSC/SAC

[REDACTED]

BT

~~SECRET RESTRICTED DATA~~ -ATOMIC ENERGY ACT OF 1954 -

AFSSSG 85032. JAN 66. SUBJECT: SUPPLEMENTAL REPORT NUMBER 2 OF NUCLEAR ACCIDENT; REPORT CONTROL SYMBOL DD-SD(AR)382. REFERENCES AFSSSG 84803 AND 84948, JAN 66. FOLLOWING REPORT IS SUBMITTED IN ACCORDANCE WITH SECTION IV, DEPARTMENT OF DEFENSE INSTRUCTION NO.

7730.12 DATED JULY 27, 1962, AND SEC DEF MSG DEF 1972 FROM ATSD(AE).

A. ONE WEAPON APPROXIMATELY 200 YARDS ON SHORE IN A TRUCK GARDENING AREA. NO HABITATIONS IN IMMEDIATE VICINITY; CHUTE DEPLOYED ON IMPACT. WEAPON DID NOT BREAK UP. NO RADIATION EFFECTS IN AREA.

B. ANOTHER WEAPON LOCATED APPROXIMATELY TWO MILES NORTHWEST OF [REDACTED] IN A VEGETABLE GARDEN WITHIN [REDACTED] PILOT CHUTE DEPLOYED ON IMPACT. WEAPON BADLY BROKEN UP. SECONDARY EXPOSED. PILOT NOT LOCATED AND APPARENTLY DESTROYED. CONSIDERABLE HE RECOVERED.

ALPHA IN GENERAL AREA OF IMPACT MEASURED AT 5000 COUNTS PER MINUTE WITH A MAXIMUM OF 135,000 CPM IN IMMEDIATE VICINITY OF WEAPON REMNANTS. BITS OF WEAPON COMPONENTS READ IN EXCESS OF TWO MILLION CPM.

REMOVAL

~~TOP CLASSIFIED FILES COPY~~

FC-00000000

(1)

ATED AREA BEING BOUGHT AND WILL BE DESTROYED. DECONTAMINATION WILL BE EFFECTED IN ACCORDANCE WITH USAF T.O. 00-118A-8.

C. OTHER WEAPON LOCATED ABOUT ONE MILE WEST OF PUEBLO PALAMARES IN AN UNINHABITED AREA. WEAPON CONDITION SIMILAR TO ABOVE. PORTION OF PIT HAS BEEN RECOVERED. AREA IS ROCKY AND SUPPORTS NO VEGETATION. DETERMINATION OF DECONTAMINATION REQUIREMENTS IS UNDERWAY.

D. ALL AREAS WHERE WEAPONS OR COMPONENTS LOCATED ARE UNDER GUARD.

E. REMAINING WEAPON STILL UNACCOUNTED FOR. SEARCH IS CONTINUING.

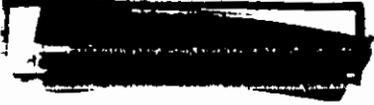
F. OF THE THREE WEAPONS LOCATED, ONE HAS A READABLE NUMBER WHICH IS 54327. TWO U.S. NAVY MINESWEEPERS, EQUIPPED WITH SONAR, FROM BARCELONA, SPAIN, HAVE BEEN REQUESTED AND SHOULD BE ON THE SCENE IN 36 HOURS TO AID IN UNDERWATER SEARCH. AIRCRAFT WRECKAGE IS STREWN OVER A LARGE AREA, ALONG LINE OF FLIGHT, APPROXIMATELY FIVE MILES LONG. ALL RESIDUE WILL BE RECOVERED, PACKAGED, AND RETURNED TO SILAS MASON, AMARILLO, TEXAS.

G. THERE HAS BEEN EXTENSIVE COVERAGE IN THE SPANISH PRESS 17-19 JAN, WITH PHOTO COVERAGE OF SCENE IN LATER ISSUES. HOWEVER, STORIES DO NOT CARRY CRITICAL COMMENT AND ARE BEING TREATED SIMPLY AS AN UNUSUAL NEWS EVENT. AMERICAN EMBASSY OFFICIALS REPORT SPANISH FOREIGN OFFICE IS OF THE OPINION THAT COVERAGE HAS REACHED ITS PEAK AND WILL NOW DECLINE. STRAIGHT ACCOUNTS APPEARED ON THE INSIDE PAGES OF THE 18 JAN ISSUES OF THE PARIS EDITION OF NY TIMES AND TRIBUNE. ISSUES OF 19 JAN DID NOT CARRY ANY REFERENCE TO THE ACCIDENT. FILM FROM ACCIDENT SCENE HAS APPEARED ON SPANISH NATIONAL TV AND ACCOUNTS HAVE BEEN REPORTED OVER SPANISH RADIO, AGAIN WITH NO CRITICAL COMMENT. QUERIES FROM AMERICAN NEWS BUREAUS IN MADRID HAVE DIMINISHED APPRECIABLY. REPRESENTATIVES OF UPI AND THE LONDON DAILY MIRROR HAVE BEEN REPORTED ON THE SCENE THIS DATE.

H. GENERALLY SPEAKING THE CRASH SITE AREA IS LOCATED IN A SPARSELY-POPULATED, REMOTE AREA OF SPAIN

I. PARAGRAPHS A THROUGH E ARE A DIRECT QUOTATION OF A LETTER FROM GENERAL BECK TO CINCSAC, HAND-CARRIED TO HEADQUARTERS 16 AF FROM THE

BT



~~RESTRICTED DATA~~
~~ATOMIC INFORMATION 1984~~



SECRET

~~SECRET~~ (8)

~~RESTRICTED DATA~~

RTTSZYUW RUVKADA8447 2891434-SSSS--RUWMAF
ZNY SSSSS 16 OCT 75 15 43Z
R 161425Z OCT 75
FM DIR SP WPNS KELLY AFB TX/SWPTR
TO FC DNA KIRTLAND AFB NM/FCR
BT

FCSD-112

~~RESTRICTED DATA~~ ATOMIC ENERGY ACT 1954.
YOUR FCR 151752Z OCT 75 REQUEST FOR RETRANSMITTAL OF INITIAL
INCIDENT REPORT PER MY SWPTR 101830Z OCT 75. FOLLOWING IS MESSAGE
RETRANSMITTED.

(W-62)

SUBJECT REQUEST FOR GUIDANCE (U)
1. ON 8 OCT 75 WHILE IN THE PROCESS OF MOVING A PT TRANSPORTER,
CONTAINING A MARK 12 WAR RESERVE RE-ENTRY SYSTEM THE PT DISCONNECTED
FROM THE TRACTOR'S FIFTH WHEEL AND CAME TO REST ON THE AFT SECTION OF
THE TRACTOR CARRIAGE. SPEED OF THE TRACTOR-PT AT THE TIME OF THE INCI-
DENT WAS LESS THAN FIVE MILES PER HOUR. THE PT'S RS PALLET AIR SUSPEN-
SION SYSTEM WAS FULLY OPERATIONAL AT THE TIME.

2. [REDACTED]
3. (SRD) A VISUAL INSPECTION OF THE EXTERIOR SURFACES AND T-290
AIR MONITOR WAS CONDUCTED BY TRAINED 463X0 NUCLEAR WEAPON MAINTEN-

DNA
(b)(3)

PAGE2 RUVKADA8447 S E C R E T R D
ANCE PERSONNEL, NO VISUAL SIGNS OF DAMAGE WERE PRESENT. DISASSEMBLY,
IS IN PROGRESS TO DETERMINE POSSIBILITY OF ANY INTERNAL DAMAGE. IN
ADDITION THE ECTS SAFETY AND CONFIDENCE MONITOR ELECTRICAL CHECKS
WERE PERFORMED, RESULTS WERE SATISFACTORY. TARGETING ELECTRICAL TEST
WAS SATISFACTORY. RV FINAL ASSEMBLY CHECK ELECTRICAL TEST WAS SATIS-
FACTORY.

DNA
(b)(3)

4. (SRD) DUE TO THE POSSIBILITY THE SYSTEM WAS SUBJECTED TO UNUSUAL
STRESS/ENVIRONMENT, SHOULD THE WARHEADS BE REJECTED AND RETURNED TO
DEPOT FOR FURTHER INSPECTION AND TESTING

5. (SRD) PENDING INSTRUCTIONS THE WARHEADS
FORWARD SHROUD ROCKET MOTOR WITH INITIATOR WILL BE CONSIDERED REJECTS
AND HELD PLEASE ADVISE DISPOSITION OF THESE ITEMS.

6> (U) AFR 127-4 REPORT IN PROGRESS.

BT
#8447

NNNN#

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Data defined in the Atomic Energy
Act of 1954. Its dissemination or use
is prohibited.

ACTION	INFO
FCSD	FCSD
FCPP	FCPSM
	FCI
	FCPF
	ERDA

THIS DOCUMENT CONTAINS RESTRICTED DATA (S)

~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954

ROUTINE

*

ROUTINE

PT 8
RTTYZLN RUVKADAB097 2831846-5515

ZNY
R 101800Z OCT 75
FM 101800Z OCT 75
TO FC DMA KIRTLAND AFB MS/FCMS
BT

RE: [REDACTED]

FROM THE TRACTOR WITH [REDACTED]
OF THE TRACTOR [REDACTED] IN
INCIDENT WAS [REDACTED] [REDACTED]
WAS CONDUCTED BY [REDACTED] [REDACTED]
OF DAMAGE WERE PRESENT. DISASSEMBLY [REDACTED] [REDACTED]
POSSIBILITY OF DAMAGE, NECESSARY ELECTRICAL TESTS [REDACTED]
FORMED AND WERE SATISFACTORY. BASED ON ABOVE INFO, IT APPEARS [REDACTED]
RS INCURRED NO DAMAGE. PLEASE PROVIDE INFORMATION REGARDING [REDACTED]
TION OF W625 INVOLVED.

BT
#8097

NNNN

~~RESTRICTED DATA~~
~~ATOMIC ENERGY~~

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2-FCP/ST

~~THIS MATERIAL CONTAINS [REDACTED]~~
~~PRO DOCUMENT [REDACTED]~~
classification
prohibited

ROUTINE

~~RESTRICTED DATA~~

LINE

PT 07475
RTTSZYU RUVKADA9219 2011730-5555--RUMHAF RUMHAG92
ZNY 55555
R 201630Z OCT 75
FM DIR SP WPNB KELLY AFB TX/EMPTB
TO RUMHAF/FC DNA KIRTLAND AFB TX/FCPSM
INFO
BT
S
SUBJECT: C/N NS 10-20-75

REPORTS FOLLOWING CONDITION NOTED DURING
T290 MONITORING OF M62-B, SN 957817, MR. RESERVOIR,
SN DAF 8350-J73, REMOVAL FOR ANTENNA REPLACEMENT.
THE RESERVOIR WAS ROTATED COUNTERCLOCK WISE ONE TURN
AND NO T290A INDICATION WAS NOTED AFTER APPROXIMATELY
A ONE MINUTE WAIT. WHEN THE RESERVOIR WAS REMOVED FROM
THE WARHEAD, A DEFLECTION OF 2.8 WAS NOTED ON THE T290A.
THE RANGE SELECTOR SWITCH WAS IN THE R10 POSITION AND
THE FLEXIBLE HOSE WAS NEAR THE OPENING OF THE EXPLOSIVE
ACTUATED VALVE. THE T290A HAD BEEN IN OPERATION APPROX-
IMATELY THREE MINUTES AND THE NEEDLE HAD DRIFTED TO
APPROXIMATELY TWO DIVISIONS BELOW ZERO. EXPOSURE TIME
2 MINUTES. THE BUILDING WAS EVACUATED, EGO NOTIFIED

DNA
(b)(3)

FCPSM	INFO
	FCD
	FCPP

PAGE 2 RUVKADA9219
AND RESPONDED WITH NO RESIDUAL MEASUREMENT OBTAINED.
EXPOSED PERSONNEL WERE SENT TO RADIOLOGICAL HEALTH LAB
FOR TESTING. M62 IS IN YELLOW STATUS. REQUEST EVALUATION
AND COMMENTS. IT APPEARS MEASUREMENT OBTAINED IS FROM
TRITIUM DIFFUSION AS EXPLAINED IN PARA 5-6.2, TO 11N-
ED-7, ALTHOUGH MEASUREMENT REPORTED MAY BE HIGHER
THAN ANTICIPATED.

BT
#9219

NNNN

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Act of 1954. Its transmission or
disclosure to unauthorized persons is
prohibited.

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1 - FCPP
1 - FCPSM

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No. 5 of 5 Copies 5/11/75

FC DNA
UR 66W105

~~RESTRICTED DATA~~

ROUTINE

██████████

MR. GERALD A. VILLANE, SANDIA LABORATORIES,
131-22-3464, CLEARED COSMIC ATOMAL TOP SECRET
(AEC FM 277 FORWARDED ██████████ SEPARATELY),
WILL BE AVAILABLE TO ASSIST YOU IN THIS EVALUATION
THE WEEK OF 17 NOVEMBER 1975. REQUEST THEATER
CLEARANCE FOR MR. VILLANE. INCLUDE ██████████

3. A T-448 TESTER WITH TEST LEADS, ONE
ALT 290 G6129 GAGE, AND PROCEDURES WILL BE
AVAILABLE TO COINCIDE WITH MR. VILLANE'S VISIT
THE WEEK OF 17 NOVEMBER 1975.

██████████
██████████

~~SECRET~~
~~SECRET~~

Retain for Reference for NTS

100

[REDACTED]

PRIORITY

20 JAN 66 04 44

JAZ RUWJ PFA 8302 019195 I-SSSS--RUWJFOA.

REMOVED FROM / SECURITY
RECORDING? DON'T LIKE THESE
DOES NOT PAM

ACTION	INFO
OP-7,8	SE-7
	EG-10,11
	DV-12,13,14
	AM-7

DIRECTORATE SPECIAL WEAPONS KELLY AFB TEXAS

DASA SANDIA BASE ALBUQUEQUE NMEX

THIS DOCUMENT CONSISTS OF 170 PAGES
NO. 11 OF 11 COPIES, SERIES -

~~FORMERLY RESTRICTED DATA~~ SAWPTW 30430 JAN 66

OPS. 1. PRELIMINARY REPORT OF NUCLEAR ACCIDENT (BROKEN ARROW)

DUE TO LACK OF ON SCENE COMMUNICATIONS FOLLOWS: (MSG 16AF

, 18 JAN 66 ASSIGNED CONTROL TO NSL-4-66). SPECIAL HANDLING

IAW AFR 127-4. QUOTE:

THIS DOCUMENT CONSISTS OF 170 PAGES
NO. 11 OF 11 COPIES, SERIES -
E-116 mthru

0922Z JAN 66 SADDLE ROCK AIR REF-

AREA, PSAIN COORDINATES 3714N/0149W APPROXIMATE CENTER OF

GE ON GROUND; WRECKAGE COVERS APPROXIMATELY IS QQ16 SQUARE MILES.

K 28 MOD 2FT SERIAL NUMBERS UNKNOWN W/R. DAMAGE UNKNOWN

ED DAMAGE UNKNOWN.

~~SECRET~~
~~SECRET~~

1-6-4995
WPN S DISCREP

60
mthru

PAGE 3 RUWJFFA830

~~SECRET~~

PORTS OF SOME SURVIVORS. AN AIR FORCE ACCIDENT INVESTIGATION TEAM HAS BEEN DISPATCHED TO THE SCENE. ADDITIONAL DETAILS WILL BE MADE AVAILABLE AS THE INVESTIGATION PROGRESSES.

N. NO

O. ROSS C. COX, CAPT, DSG, 3445/3113.

P. REPORT IAW AFR 127-4 PARA 17A(2) ATTACHMENT 4,6.) UNQUOTE.

2. SUP REPORT NO 1 C. SG 16AF DS09006 19 JAN9 QUOTE:

A. NO CHANGE.

B. 4 MK 28 MOD 2 FT. SERIAL NUMBERS: 45345, 54327, 434879,

330448. THREE OF THE ABOVE WEAPONS HAVE BEEN LOCATED AND SECURED

BY USAF PERSONNEL. THEY LIE ALONG A LINE ORIENTED ALONG 30 300 DEGREE

THE FIRST WEAPON IS APPROXIMATELY 100 YARDS FROM THE

SHORELINE; THE SECOND WEAPON ONE MILE FURTHER IN LAND; THE THIRD

WEAPON AND ADDITIONAL MILE FURTHER WEST FROM THE SECOND WEAPON

THEY ARE LOCATED IN THE GENERAL AREA OF THE B-52 DEBRIS, BUT

INDICATIONS ARE THAT THEY FELL FREE. THE FOUR-WEAPON PACKAGE

APPARENTLY BROKE UP IN THE AIR. STARTING FROM THE COASTLINE, THE

FIRST WEAPON IN-LAND IS BENT BUT INTACT; THE SECOND AND THIRD

WEAPONS IN-LAND ARE BADLY DAMAGED. THE SECOND ARIES ARE BROKEN

OPEN. THE PRIMARIES ARE VIRTUALLY DESTROYED. PIECES OF

P3

~~SECRET~~

1-6-99

PAGE 4 RUWJ PFA8302 [REDACTED]

EVIDENT. THE PILOT CHUTE ON ALL THREE WEAPONS DEPLOYED OR POPPED OUT, PERHAPS ON IMPACT, BUT THE MAIN CHUTES DID NOT DEPLOY. THE FOURTH WEAPON HAS NOT BEEN LOCATED, WHICH SUGGESTS THE STRONG POSSIBILITY IT IS IN THE WATER. THE ABOVE IS REPORTED BY THE DEPUTY COMMANDER OF 16AF BASED ON INFORMATION REPORTED OVER VERY MARGINAL COMMUNICATIONS AND IS, THEREFORE, SUBJECT TO REFINEMENT AND CLARIFICATION.

E THRU J. NO CHANGE.

K. THERE IS EVIDENCE OF SOME HE DETONATION. THERE IS SOME RADIATION INVOLVED. TYPES AND INTENSITIES ARE UNKNOWN AT 16AF HEADQUARTERS DUE TO POOR COMMUNICATIONS WITH CRASH SITE.

L THRU N. NO CHANGE.

C. CAPTAIN ROSS C COX, 16AF, DIRECTORATE OF SAFETY, EXT 3445 OR 3113. REPORTED IAW AFR 127-4, PARA 17A(2).

UNQUOTE.

EP-1.

T

PY

[REDACTED] SECRET [REDACTED]

1-6-499

SECRET

INFO

OP-78

SE-9
TG-10, 11
DU-12, 13, 14
Am-10

TYPE MSG BOOK MULTY SINGLE

PRECEDENCE

ACTION IMMEDIATE

INFO

DTG

SPECIAL INSTRUCTIONS

FROM: DIR NUCLEAR SAFETY KIRTLAND AFB NMEX

TO: 16AF TORREJON AB SPAIN

INFO: OSD WASH DC

CSAF

DEP IG FOR INSP AND SAFETY USAF NORTON AFB CALIF

FC/DASA SANDIA BASE NMEX (MESSENGER)

SANDIA CORP SANDIA BASE NMEX (MESSENGER)

AEC/ALO SANDIA BASE NMEX (MESSENGER)

CNO WASH DC

CINCLANTFLT NORFOLK VA

~~SECURITY INFORMATION~~

AFINS *0054* Jan 66, from 16AF (C and ADVON);
OSD (Asst Secy Def for Atomic Energy/Mr. *W. J. ...*); CSAF
(AFIIS, AFIGO), D/G/IS (AFIDI, AFIDIAS), FC/DASA (JNACC),
Sandia Corp (Div 9300 and Dep 1540/Mr. S.A. Moore); AEC,
ALO (Mr. Walter F. White). 16AF pass to Generals Wilson
and Beck. Subject: Analysis of Airplane Collision Near
Vera, Spain by Sandia Corporation Team (Msg No. 3). Your

TYPED NAME AND TITLE

PHONE 2055

SIGNATURE *John O. Mitchell*

JOHN O. MITCHELL, COL, USAF

SECURITY CLASSIFICATION

JOINT MESSAGEFORM - CONTINUATION SHEET

SECURITY CLASSIFICATION

FROM

DIR NUCLEAR SAFETY KIRTLAND AFB NMEX

C-00030, 24 Jan 66. Our mapping of locations of aircraft and bomb debris from your referenced message indicates that probable B52 aircraft ground track after collision was 275 degrees true rather than the 300 degrees true heading used in our first analysis. This 275 degree heading was primarily based on impact locations of units 2 and 3, ADMS, and heavy parts of aircraft. Latest trajectory calculations indicate that probable aircraft collision point was approximately 37 degrees 14.7 minutes north latitude and 01 degree 43.1 minutes west longitude or a true azimuth of 095 degrees plus or minus 10 degrees and range of 19,500 plus or minus 4000 feet from unit 3, Pueblo of Palomares. This calculation was based on your revised wing profiles for time of collision, a 275 degree aircraft heading at 30,500 feet altitude and TAS of 716 ft/sec and by backing up normal free fall trajectories from impact points of units 2 and 3. Impact point of unit number one appears reasonable from trajectories computed assuming an unstable or coning vehicle. Trajectory of unit number four computed assuming loss of tail plate at collision and immediate deployment of 16-foot ribbon parachute. Our best estimate of unit four impact point is approximately 37 degrees 13.9 minutes north latitude and 01 degree 41.3 minutes west longitude or a true azimuth of 103 degrees and range of 29,000 feet.

SYMBOL

NR OF PAGES

SECURITY CLASSIFICATION

DD FORM 173-1

1-6-2350

DIR NUCLEAR SAFETY KIRTLAND AFB NMEX

from unit 3, Pueblo of Palomares. The approximate dispersion is a one mile radius circle about the probable impact point of unit four. We will forward constructed map showing location of debris and our estimates of collision point and impact points. We are aware of theory of possible high explosive detonation of number four at time of collision. If only the unit four case were suspended on either the 16-foot or 64-foot parachute, it would drift out at least as far as the survivors. Gp-1.

1-6-5850

P-3

PAGE

NO. OF

SECURITY CLASSIFICATION

FORM

DD FORM 1734

~~SECRET~~
SECRET

~~SECRET~~
SECRET

PRIORITY

20 JAN 66 00 21

NNNNVPUA138 TUA047TIE763

PP RUWPUJ

DE RUEAHG 177 019203

ZM SSSSS

P 192034Z

FM CSAF

ACTION	INFO
OP-7,8	SE-9
	TG-1011
	DV-12,13,14
	AM-15

TO ZEN/JOINT CHIEFS OF STAFF WASH DC

DEPWZ/DIRECTOR DASA WASH DC

RUWPUJ/JOINT NUCLEAR ACCIDENT COORDINATING CENTER SANDIA BASE N M

RUCXPG/US NAVY EXPLOSIV ORDNANCE DISPOSAL FACILITY INDIAN HEAD MARYLAND

BT

AFSSG BIRORI JAN 66. SUBJECT: SUPPLEMENTAL REPORT NUMBER 3

OF NUCLEAR ACCIDENT; REPORT CONTROL SYMBOL DD-SX(AR) 382; REFER-1

ENCE AFSSG 4883 JAN 66. FOLLOWING REPORT IS SUBMITTED IN

ACCORDANCE WITH SECTION IV, DEPARTMENT OF DEFENSE INSTRUCTION NO.

7730.12 DATED JULY 27, 1952.

DATE AND TIME: NO CHANGE.

LOCATION: SADDTE ROCK AIR REFUELING AREA. DRAIN COORDINATES

N/0149W APPROXIMATE CENTER OF WRECKAGE ON GROUND; WRECKAGE

APPROXIMATE CENTER OF WRECKAGE ON GROUND

SECRET 156-1957

SECRET

PAGE 04 RUEAHQ 177

~~RESTRICTED DATA~~

3. QUANTITY AND TYPE OF WEAPONS: FOUR WAR RESERVE MK 28 Y1 MOD
F1. SERIAL NUMBERS: 45345, 54327, 434379, 330448.

4. PROPERTY DAMAGE AND/OR PERSONNEL CASUALTIES: THE B-52 COLLIDED
WITH KC135 DURING AIR REFUELING; BOTH AIRCRAFT DESTROYED; BR
CREW MEMBERS HOSPITALIZED; 7 FATALITIES, BODIES RECOVERED.

5. TYPE OF CARRIER INVOLVED: NO CHANGE.

6. TYPE OF OPERATION: NO CHANGE.

7. WHETHER WEAPON BURNED, DETONATED, OR WAS EXPOSED TO FIRE
WEAPONS HAVE BEEN LOCATED AND SECURED BY USAF PERSONNEL INLAND.
OTHER 2 GIVE EVIDENCE OF SOME HE DETONATION.

8. DETAILS OF ANY EXISTING NUCLEAR HAZARD AND RADIATION READINGS
APPLICABLE. THERE IS EVIDENCE OF SOME RADIATION; TYPES AND INTENSITIES
ARE UNKNOWN.

9. CONDITION OF WEAPONS. THE THREE WEAPONS LOCATED LIE ALONG A LINE
ORIENTED ALONG 300 DEGREES, THE FIRST WEAPON IS APPROXIMATELY 400 YARDS
FROM THE SHORELINE; THE 2ND WEAPON ONE MILE FURTHER INLAND; THE THIRD
WEAPON AN ADDITIONAL MILE FURTHER WEST FROM THE SECOND WEAPON. THEY ARE
LOCATED IN THE GENERAL AREA OF THE B-52 DEBRIS BUT INDICATIONS ARE
THAT THEY FELL FREE, THE FOUR WEAPON PACKAGE APPARENTLY BROKE UP IN
THE AIR. STARTING FROM THE SHORELINE, THE FIRST WEAPON INLAND IS

P2

3-49

~~SECRET~~

~~SECRET~~

~~RESTRICTED DATA~~

BENT BEST INTACT. THE 2ND AND 3RD XWEAPONS INLAND ARE BADLY DAMAGED; THE SECONDARIES ARE BROKEN UP, THE PRIMARIES ARE VIRTUALLY DESTROYED; PIECES OF HIGH EXPLOSIVE ARE EVIDENT. THE HINMT CHUTE ON ALL THREE WEAPONS DEPLOYED OR POPPD OUT, PERHAPS ON IMPACT, ZUT THE MAIN CHUTES DID NOT DEPLOY. THE FOURTH ZEAPON HAS NOT BEEN LOCATED, WHICH SUGGESTS THE STRONG POSSIZILITY IT IS IN THE WATER. OWING TO MARGINAL COMMUNICA-
THE INFORMATION IS SUBJECT TO REFINEMENT AND CLARIFICATION.

10. CORRECTIVE ACTION RECOMMENDED: NO CHANGE.

11. COPY OF NEWS RELEASES: JOINT STATEMENT APPROVED ZY USIS, DOD, STATE DEPT. RELEASED 21 45 17 JAN 66 TO UPI, AP, REUTERS, ABC STAR AND STRIPESBM A B-52 BOMBER FROM THE 68TH BOMB WING, SEYMOUR JOHNSON AFB, N.C. AND A KC-135 TANKER FROM THE 910TH AIR REFUELING SQUADRON, BERGSTROM AFB, TEXAS, CRASHED TODAY SOUTHWEST OF CARTAGENA, SPAIN, DURING SCHEDULED AIR OPERATIONS. THERE ARE REPORTS OF SOME SURVIVORS. AN AIR FORCE ACCIDENT INVESTIGATION TEAM HAS BEEN DISPATCHED TO THE SCENE. ADDITIONAL DETAILS WILL BE MADE AVAILABLE AS THE INVESTIGATION PROGRESSES.

12. ANY OTHER PERTINENT INFORMATION:

- A. CONTINUOUS SEARCH BEING CONDUCTED.
- B. USAFE EOD TEAM ON SCENEEM
- C. MEDICAL AND SECURITY FROM WQY AF AND SPANISH RESOURCES. GP-1.

BT

P3

~~SECRET~~

1-6-4957

~~SECRET~~
~~SECRET~~

R

~~SECRET~~

28 JAN 66 09 10

RTS JAZ RUWJPFAB612 0241850-SSSS--RUWJFOA

ZNY SSSSS

R 241826Z

FM DIR SPEC WPNS KELLY AFB TEX

TO RUWJFOA/FC DASA SANDIA BASE ALBUQUERQUE NMEX

BT

ACTION

INFO

OR 7, 8

SE-9
TG-10, 11
DV-12, 13
AM-15

3845 JAN 66. SECTION ONE OF TWO.

FOR SCOP5. PROGRESS REPORT OF BROKEN ARROW CONTROL NO NS1-4-66

FOLLOWS: SPECIAL HANDLING REQD IAW AFR 127-4. QUOTE:

TAIL CLOSING PLATE ATTACHED TO THE AFT RING OF THE MDF HOUSING, AND IDENTIFIED AS A PART OF WEAPON NUMBER FOUR, WAS FOUND WITHIN

HE

BT

DISASTER CONTROL BIVOUAC AREA. EFFORTS WILL BE MADE TO DETERMINE WHETHER IT WAS BROUGHT IN BY A SEARCHER OR CAME TO REST AT THE POINT WHERE FOUND. THE POINT IN QUESTION IS SITUATED ABOUT 100 YARDS FROM THE B-52 TAIL SECTION AND LIES GENERALLY

P-1

~~SECRET~~
~~SECRET~~

RESTRICTED

SUBJECT: SUPPLEMENTAL REPORT NO. 3N(ADVON) OF NUCLEAR
ACCIDENT (BROKEN ROW) (S). SEC DEF FOR ASTD(AE); CSAF AND AFICG;
AFIIS, AFSSS-AE, AFINS; SAC FOR GEN RYAN AND DO. DM, DOSD: 2,
8AF, 16AF 42, 822, AD (DO, DM, DS,) 68 AND 97BW (DCO, DCM DS)
SCI Z, MCASS; SWVN, OOYS.

THIS CONSTITUTES ADDITIONAL OR CORRECTED INFO TO REPORTS FROM 16
ARVONMSG 0-00010, 23 JAN 66 AND C-00028, 24 JAN 66. THIS REPORT
COVERS REQUIREMENTS OF ATTACHMENT 4, AFR 127-4,

A. NO CHANGE

B. NO CHANGE. WPN NO. 4 MK 28Y1V MOD 2 SER. NO. 45345 HAS NOT
BEEN FOUND

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. INTENSIVE SEARCH OPERATIONS CONTINUE FOR NO. 4 WPN,
ADDITIONAL MEETINGS WERE CONDUCTED WITH SPANISH NUCLEAR
ENERGY COMMISSION REPRESENTATIVES. USAF PERSONNEL ATTENDED
AS WELL AS AEC MEMBERS. A SEPARATE MSG WILL BE FURNISHED
ON THESE MEETINGS SINCE THEY ARE OF A POLICY NATURE.
ADDRESSEES WILL BE LIMITED. NO 2 WPN AREA INFO FOLLOWS.
SUP REPT 2 STATED APPROX THREE QUARTERS OF A MILE FROM
CRATER IN 40 DEGREE AND 55 DEGREE DIRECTIONS READINGS
(ON PAC-IS ALPHA DETECTOR) RANGED FROM 35,000 CPM TO
55,000 CP. DISTANCE HAS BEEN NARROWED DOWN TO APPROX
3000 FEET. CROPS AND SOME HOMES ARE IN THIS AREA.

MONITORING IS CONTINUING IN SURROUNDING AREA. CONDUCTED
WIDE SEARCH TO RECOVER ADDITIONAL WEAPON FRAGMENTS. ONLY
VERY SMALL PIECE OF SCRAP RECOVERED, I. E. APPROX 7 LBS.
NO. 3 WPN AREA INFO FOLLOWS. RESULTS OF FIVE AIR SAMPLES
TAKEN APPROX 200 FT NORTHWEST (SHOULD READ EAST) FROM
CRATER WERE NEGATIVE. MONITORING OF IRRIGATION DITCHES
EAST OF CRATER BETWEEN APPROX 3200' AND 3700' OF IRRIGATION

... ONE AND ONE HALF TONS OF CROPS IN ...
... TO 165 DEGREES FROM CENTER WERE REMOVED ...
... FIVE ACRES OF CONTAMINATED CROPS THAT HAVE ...
... ARE AWAITING BURIAL AS SOON AS SPANISH OFFICIALS ...
... AL SITE.

... MINATED CROPS WILL BE DISPOSED OF. CROPS INCLUDE ...
... COES, BEANS, CAGGABE AND GRAIN.

... JAN A REVISED ESTIMATE WAS MADE OF EXTENT OF ...
... MINATED CROPS THAT MUST BE CLEARED SURROUNDING ...
... PN AREA. APPROX 35 ACRES ARE PRESENTLY INVOLVED ...
... X (\$14,500.)

... SAID THERE WAS INDICATION THAT MILK FROM SOME HOMES ...
... OT BEING PRUCHASED IN LOCAL TOWNS, CURRENT INFO INDICATES ...
... ONLY ONE INDIVIDUAL COULD NOT SELL PART OF MILK IN ...
... OUNDING ARE. THE MAYOR CF PALOMARES SAID THIS WAS THE ...
... CASE. EMERGENCY CLAIM FOR \$66.66 WAS PAID TO THISD

... IDUAL3. AREAS COVERED GROUND AROUND TENTS OF COMMAND ...
... EOD. MEDICAL, SUPPLY, FOOD SERVICE, MOTOR POOL, BILLETING ...
... AND DECONTAINATION AREA. ETIRES AND FLOORS OF BUSES ...
... CHICELS WERE MONITORED. SUPPLY AND FOOD SERVICE TENST ...
... MONITORED. ALL READING WERE NEGATIVE. TWO DECON

... N HAVE BEEN ESTABLISYED. PERSONNEL RECEIVING CONTAMIN- ...
... DURING MONITORING OPERATIONS AND CROP REMOVAL ...
... AIMINATED.

... NG DETERMINED BY AIRCRAFT ACCIDENT INVESTIGATION BOARD

CHANGE

HANGE

HANGE

F ABOVE

HANGE

HANGE

HANGE

AFB, NEBR. V THIS REPORT SUBMITTED FROM SITE OF ACD
NEW ADDRESSEES WILL RECEIVE SUP RPT NO 1 AND 2 FROM HQ

16 AF...GP-1.

BT

~~EXCLUDED FROM AUTOMATIC
DECLASSIFICATION~~

~~SECRET~~

~~RESTRICTED DATA~~

(32)

IMMEDIATE

27 JAN 66 00 46
HQS, DASA

CORRECTED COPY
COMM CEN 2613

DASA 00 50

THIS MESSAGE CONTAINS
NO

*Retrans to DMA/AFC
CNO 27 Jan 66*

EJL484EUH781CEA227
OO RUEPWZ
DE RUTQBN 8A 0261400
ZNY SSSSS
O 261300Z ZEL
FM 16AF ADVON
TO RUEKDA/SECDEF
RUEAHQ/CSAF
RUWMFNA/DIR NUC SFTY KIRTLAND AFB NMEX
RUWHNF/DEP INSP GEN INSP SFTY NORTON AFB CALIF
RUCVAA/2AF BARKSDALE AFB LA
RUETBH/8AF WESTOVER AFB MASS
RUTQBNA/16AF TORREJON AB SPAIN
RUCVHU/42ADIV BLYTHEVILLE AFB OKLA
RUETSR/822ADVID TURNERY AFB OKLA
RUETFK/68BW SEYMOUR JOHNSON AFB NC
RUEBAA/AFSC
RUCDSQ/AFLC
RUCWCH/SAAMA
RUCWFM/AFSC
RUWHHL/00AMA HILL AFB UTAH
RUCSC/HQ SAC OFFUTT AFB NEBR
RUCWGNK/OCAMA TINKER AFB OKLA
INFO RUFPPBW/USAFE CP
RUCVSK/SAC OTSL CARSWELL AFB TEX
RUEPWZ/FC DASA SANDIA BASE NMEX
BT

H F

52 21 20 00 5

SUBJ SUPPLEMENTAL REPORT NO. 4 THEATER OF OPERATIONS

(BROKEN ARROW). SEC DEF FOR ATSD(AE); USAF/AFSA

DISAFINS; SAC FOR GEN RYAN AND HQ, AF, DISA

2, 8, 16AF, 42, 822AD (DO, DE, DS); 68 & 97 BW (E)

SCI2; MCASS; SWVN; OOYS. THIS CONSTITUTES ADDITIONAL

INFO TO REPTS FROM 16AF ADVON HSCS CAGIN, 23

24 JAN 66 AND CMO034, 25 JAN 66. THIS INFO

MENTS OF ATCHM'T 4, AFR 127-4.

A. NO CHANGE

B. NO CHANGE. WPN NO. 4 HAZARD NO. 2 WPN NO. 433

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. INTENSIVE SEARCH OPERATIONS CONTINUE FOR NO. 4 WPN ON 25

JAN. TWELVE ADDITIONAL NAVY EOD PERSONNEL ARRIVED AT CAMP SITE

TO JOIN THE SIX ALREADY HERE. SIXTEEN USAF EOD PERSONNEL

ARE AT ACFT SCENE. THEY ARE COMBING NO. 2 AND 3 SITES FOR WPN

FRAGMENTS. EOD, BIO-ENVIRONMENTAL, DISASTER CONTROL, PREVENTIVE

MEDICINE AND OTHER PERSONNEL ARE MONITORING NO. 2 AND 3 WPN

AREAS. ON 25 JAN ANOTHER MEETING BETWEEN USAF PERSONNEL AND

SPANISH OFFICIALS WAS HELD TO DISCUSS STANDARDS FOR DECONTAM-

ION OF NO. 2 AND 3 WPN AREAS. A SEPARATE MSG WILL BE PRO-

VIDED TO LIMITED ADDRESSES ON THIS SUBJECT. NO. 2 WPN AREA IN

FOLLOWS. MONITORING WITH PAC-11 ALPHA DEFESTORE

ATTEMPTING TO DEFINE OUTER LIMIT OF CONTAMINATION

40 DEGREE RADIAL FROM WPN CRATER. SUP-3 SAID

ALLOWED TO APPROX 3000 FT. THIS HAS CHANGED

BEEN EXTENDED TO APPROX 4000 FT WHERE READINGS ARE POSSIBLE

ON THE RADIAL. READINGS TO THIS POINT WERE OF VARIOUS LEVELS.

READING IN 18 PLOTS OF VEGETATION CHECKED RANGED FROM BELOW 2000

CPM TO 40,000 CPM. THESE WERE BASED ON 12 READINGS PER PLOT

WHICH WERE THEN AVERAGED APROX 450 FT TO LEFT (BELOW 40 DEGREES)

DEGREES) OF RADIAL THE REMILY HAS NOT THE
 SWEEP MADE OF AREA IN SOUTHEAST QUADRANT
 EIGHTS OF A MILE FROM CRATER. APPROX 22 LBS WPN
 FOUND. ONE LARGE PIECE OF WPN CASE ESTIMATE AT 15 LBS.
 READ 1,6000,000 CPM. NO. 3 WPN AREA (PALOMARES) INFO
 READINGS WERE TAKEN WITH A PAC-13 ALPHA DEFE
 ON 24 JAN READING AT GROUND ZERO WAS 80,000
 DAY 25 GROUND ZERO READING WAS 200,000
 DEPICTS A COMPARISON OF READINGS OBTAINED ON 24 AND 25
 JAN. AT SPECIFIC HEADINGS AND FOOTAGE FROM GROUND ZERO

	30FT	60FT	90FT	120FT	150FT
DEGREE AND DATE					
30 DEGREES ON 24	110,000	10,000	4,000	650	
30 DEGREES ON 25	110,000	90,000	1,100	350	
80 DEGREES ON 24	100,000	500,000	100,000	40,000	5,000
80 DEGREES ON 25	700,000	600,000	50,000	15,000	5,000
135DEGREES ON 24	500,000	200,000	50,000	4,000	3,000
135DEGREES ON 25	650,000	160,000	40,000	8,250	800
205DEGREES ON 24	11,000	13,000	1,000		
205DEGREES ON 25	25,000	20,000	1,200		
295DEGREES ON 24	45,000	700	150		
295DEGREES ON 25	3,000	2,000	350		
340DEGREES ON 24	200,000	70,000	20,000		
340DEGREES ON 25	110,000	110,000	12,000	5,000	

INTERPRETATION OF ABOVE CHART BY A TECHNICAL AUTHORITY
 FIELD (DR. WRIGHT LANGHAM) IS, "READINGS OF THIS NATURE
 UNDER FIELD CONDITIONS CANNOT BE TAKEN AS ABSOLUTE. ONLY A
 KIND OF DISSEMINATION CAN BE ASCERTAINED. BASICALLY THE CHART
 INDICATES SOME GENERAL DISSIPATION OCCURRING BUT VERY LITTLE"

FOUND THREE SMALL DISTORTED PIECES OF WPN CASING WITHIN IMMEDIATE
 AREA. READINGS WERE BETWEEN 50,000 AND 100,000 CPM. FOUR AIR
 SAMPLES WERE TAKEN APPROX 160 FT FROM CRATER OVER A 30 DEGREE

AND VARIABLE. TWO SAMPLES HAD NO DETECTABLE READINGS. ~~THE REAL~~

ABOUT 50 CPM. CROP PICKERS GLOVES WERE MONITORED. NO

SIGNIFICANT (0-500CPM) READINGS WERE FOUND EXCEPT ON ONE PAIR.

IT READ 15,000 CPM HIGH COUNT ATTRIBUTED TO PICVZTT UP

CONTAMINATED PART. ON 25 JAN FIELD SEARCHERS WERE MONITORED

UPON RETURN. READINGS WERE INSIGNIFICANT (0-200CPM). MOST

READING ARE FOUND ON SHOES.

STARTED TO MONITOR EXTERIOR OF HOUSES AND ROFFS IN VILLAGE

OF PALOMARES FOR CONTAMINATION. FOR MONITORING PURPOSES VILLAGE

WAS DIVIDED INTO QUARTERS. AREA IS WEST OF NO. 3 WPN CRATER.

FOUR TEAM'S WERE USJED. EACH TEAM CONSISTED OF TWO SPANISH AND

ONE USAF. READINGS TAKEN EVER FIVE METERS. RESULTS DOCUMENTED

IN DUPLICATE, ONE FOR SPANISH ONE FOR USAF. NO. 4 WPN CLOEIAG

PLATE ASSY SER NO. MBB2038-K2 WAS LOCATED APPROX 4500 FT FROM

NO. 3 WPN CRATER AT 60 DEGREE RADIAL. IT WAS ON A HILL. IT HAD

BEEN FOUND AND RECOVERED BY A LA GUARDIASCIVIL TO LOCATION WHERE

FOUND BY USAF SEARCH TEAM. ON 24, 25 JAN MONITORED LARGE AIR-

CRAFT PARTS. COUNTS WERE: B-52 TAIL SECTION, 8000 CPM; FUSELAGE,

300-400 CPM; FRONT OF AFT BOMBAY, 4000 CPM; RIGHT WING, 4000 CPM;

ONE SPOT IN BOMBAY (QUAIL SECTION), 10,000 CPM; ENGINES 5 AND 6,

3500 CPM MAXIMUM COUNT; FRONT SECTION ANSNTRONT BOMBAY SECTION,

NO DETSITABLE READINGS. AS OF 1200 HOURS 25 JAN NUMBER OF

URINE SPECIMENS (NO. OF PERSONS) TAKEN BY USAF; SPANISH CIVILIANS, 27;

GP-1

BT

~~GROUP GENERAL~~
~~EXCLUDED~~
~~DECLASSIFIED~~

~~SECRET~~

RESTRICTED DATA (58)
ATOMIC ENERGY ACT 1954
50 02720005

M PUA 85 1WZB 85

~~SECRET~~

ATOMIC ENERGY ACT 1954

IMMEDIATE

OO RUEPWZ

ZNY SSSSS ZOV RUEPWZ

EUL524 EUG44 SCEF 121

OO RUEPWZ

DE RUTQB4 2244 027140

ZNY SSSSS

01271301Z JAN 66

FM 16TH AF ADVON

TO RUEKDA/SECDEF

RUEAHQ/C SAF USAF

UWAFNA/DIR NUC SFTY KIRTLAND AFB NY

UWAFNF/DEP INSP GEN INSP SFTY HORTON AFB CALIF

UWAFNCC/SAC

UWAFNVCVA/HQ 2 AF BARKSDALE AFB LA

UWAFNUEH9/HQ 8 AF WESTOVER AFB MASS

UWAFNUQBNA/HQ 16 AF TORREJON AFB SPAIN

UWAFNVCVH/2ND AIR DIV BLYTHEVILLE AFB OKLA

UWAFNVEISR/822ND AIR DIV TURNER AFB GA

UWAFNVCVH/ST DIV BLYTHEVILLE AFB OKLA

UWAFNVCV88/BY SEYMOUR JOHNSON AFB NC

UWAFNVCVAAA/AFSC ANDREWS AFB MD

UWAFNVCVCSV/AFLC WPAFB

UWAFNVCVKN/SAAMA KELLY AFB TEX

UWAFNVCVUWAFNA/AFSC KIRTLAND AFB NY

UWAFNVCVUMHH/COONA HILL AFB UTAH

UWAFNVCVRUC/COMAFB WRIGHT AFB OHIO

UWAFNVCVWAFN/AFSC WILLOW GROVE AFB WISCONSIN

UWAFNVCVWAFN/AFSC WILLOW GROVE AFB WISCONSIN

ACTION

INFO

OP-78

Called
by Swann
1640Z

SE-9

TG-1911

OV-12, 13, 14

AM-15

IMMEDIATE

IMMEDIATE

NO

NO

Notified by FAX

1-6-5845

R

~~SECRET~~ [REDACTED]
UEPVZ/FC DASA SANDIA BASE NHEX

BT

~~SECRET~~ RESTRICTED DATA C-20054 JAN 66

SUBJ: SUPPLEMENTAL REPORT NO. 5 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTDCAE58 CSAF AND AFIGO,
AFIIS, AFSSS-AAE; AFINS; SAC FOR GEN RYAN AND DC, DM, DOSD; 2, 3,
16 AF, , 822 AD (DO, DM, DS); 58 & 97 BW (DCO, DCM, DS); SCIZ
MCASS; SVVN; OOYS. THIS CONSTITUTES ADDITIONAL OR CORRECTED
INFO TO REPTS FROM 16 AF ADVON SECRET/RD/MSGS C 0010, 2-3 JAN 66,
C 258, 24 JAN 66, C 20054, 25 JAN 66 AND C 20047, 26 JAN 66. THIS
REPT COVERS REQUIREMENTS OF AFR 127-4. 1-6-5843

~~SECRET~~ RESTRICTED DATA

AAPAGE 2 RUT0BN 004A

B. NO CHANGE. WPN NO. 4 MK28Y1 MOD 2 SER NO. 45345 HAS NOT BEEN

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. INTENSIVE SEARCH OPERATIONS CONTINUE FOR NO. 4 WPN. ON 26

JAN ANOTHER MEETING WAS HELD BETWEEN USAF PERSONNEL AND

SPANISH OFFICIALS TO FURTHER DISCUSS CONTAMINATION PROBLEM

INVOLVING NO. 2 AND NO. 3 WPN SITES. A SEPARATE MSG WILL

BE PROVIDED TO LIMITED ADDRESSEES ON THIS SUBJECT. NO. 2

WPN AREA INFO FOLLOWS. DURING 25 JAN MONITORING WITH

PAC-15 ALPHA DETECTORS CONTINUED. EXTENT J DOWNWIND CON-

TAMINATION FROM CRATER WAS FURTHER DEFINED. MORE

CONTAMINATED PLOTS WERE IDENTIFIED. PATTERN OF CONTAMINATION IS

FAIRLY LOCALIZED, I.E. EXTENDS ABOUT 500 FT AROUND CRATER

EXCEPT FOR 40 DEGREE RADIAL. THE 40 DEGREE RADIAL SHOWS

CONTAMINATION OUT TO APPROX 3100 FEET. (SUP 3 & 4 REPTS

REFLECTED 3000 FT AND 4000 FT) AT 3100 FT THE PATTERN

MAKES A RIGHT ANGLE IN A SOUTHEAST DIRECTION. CONTAMINATION

EXTENDS TO APPROX 2000 FT ENCIRCLING CRATER AND FOUR

DWELLING SITES TO THE SOUTHWEST. CONTAMINATION IN THE

P-3

SECRET

1-6-50

SECRET
PAGE 3 RUTQBN 004A 5

SPOTS READ ABOUT 32,200 CPM. IMMEDIATE CRATER AREA WAS WATERED DOWN. FIRE TRUCK REACHED CLOSE ENOUGH TO HILLY, ROCKY, ISOLATED CRATER AREA TO USE HOSES. WIDE SWEEP OF SOUTHWEST, NORTHWEST AND NORTHEAST QUADRANTS EXTENDS APPROX ONE HALFMILE OUT FROM WPN CRATER WAS ACCOMPLISHED. IN NORTHEAST QUAD, RECOVERED FIVE SMALL PIECES OF WPN DEBRIS, I.E. METAL AND PLASTIC. READINGS OF FRAGMENTS RANGED FROM 30,1P TO 350,200 CPM. OTHER EFFLUENTS RANGED FROM 30,200 TO 350,000 CPM. OTHER TWO QUADRANTS APPEARED FREE OF WPN FRAGMENTS.

NO. 3 WPN AREA INFO FOLLOWS. MONITORING WITH PAC-IS ALPHA DETECTORS CONTINUED. MORE RADIALS WERE RUN OUT FROM WPN CRATER. RADIALS WERE EVERYNAEP DEGREES. READINGS WERE TAKEN EVERY 15 FT AND RANGED FROM 200 CPM TO 900,000 CPM. CONTAMINATED CROPS (TOMATOES, ALFALFA) IN APPROX TWO ACRES WERE PICKED. TO DATE APPROX TOTAL OF 7 ACRES WERE PICKED. REMOVAL AND BURIAL OF ENTIRE QUANTITY OF PICKED CROPS DEPENDS UPON EXCAVATION OF JUST APPROVED (1800 HRS LOCAL, 26 JAN) BURIAL SITE.

NO. 2. WPN CRATER AREA HAS BEEN APPROVED BY SPANISH OFFICIALS AS A BURIAL SITE FOR CONTAMINATED CROPS, SOIL, ETC. GEOLOGICAL DATA WAS NOT AVAILABLE TO DETERMINE SUITABILITY OF ROAD TO BURIAL SITE MUST BE OBTAINED IS IN PROGRESS. STAY AWAY FROM CROPS.

P-4

SECRET
76-3843

PAGE 4 RUCBN 334A

[REDACTED] [REDACTED]
WERE PICKED (SOME PULLED UP BY ROOTS) WERE MONITORED. THESE WERE
LOCATED EAST OF WPN CRATER BELOW RIDGE OF HILL. READINGS RANGED FROM
200 CPM TO 3,400 CPM. USAF RAD MONITORS CONTINUED ASSISTING SPANISH RAD
MONITORS IN AND AROUND VILLAGE OF PALOMARES. READINGS RANGED FROM
DETECTABLE TO 5000 CPM. MAJORITY OF READINGS WERE UNDETECTABLE. READINGS
IN A FEW ISOLATED SPOTS RANGED FROM 300 CPM TO 5000 CPM.

RESULTS OF URINE SAMPLES TAKEN ON 37 SPANISH CIVILIANS
LA GUARDIA CIVIL BY SPANISH OFFICIALS WERE RECEIVED. TWO
INDICATED ALPHA ACTIVITY TO THE LEVEL OF ABOUT ONE HALF BODY
BURDEN. THE REMAINDER (35) SHOWED INSIGNIFICANT FINDINGS. SAMPLES
WERE ANALYZED BY SPANISH.

CONTAMINATED HOT SPOTS ON AIRCRAFT WERE PAINTED. VERTICAL
FIN OF TAIL SECTION WILL BE CUT BY EXPLOSIVES TO MAKE HANDLING
OF DEBRIS EASIER.

ON 26 JAN DOUG EVANS NUCLEAR EXPLOSIVES EXPERT FROM LOS
ALAMOS SCIENTIFIC LAB DEPARTED SITE OF ACFT FOR TORREJON AB. HE
WILL PROVIDE TECHNICAL ADVICE CONCERNING STEPS TO TAKE PRIOR TO
SHIPPING NO. 1 WPN AND OTHER WPN DEBRIS.

G. NO CHANGE

H. NO CHANGE

[REDACTED] RESTRICTED

1-6-5843

P-5

U.S. AIR FORCE
NUCLEAR WEAPONS ACCIDENT/INCIDENT
REPORT MESSAGES
SANITIZED VERSION

Encl 2

PAGE 5 RUIOBN 034

I. NO CHANGE

J. NO CHANGE

K. SEE F ABOVE. REPLACEMENT PROBE FACES FOR PAC-15 ALPHA DETECTOR ARE IN SHORT SUPPLY. THOSE BEING USED HAVE BEEN REPAIRED REPEATEDLY. TERRAICSB VEGETATION, ROUGH ROCKY GROUND SURFACES CAUSE EASY PUNCTURE TO PROBE FACES RESULTING IN LIGHT LEAKS. FIFTY ADDITIONAL PROBE FACES HAVE BEEN REQUESTED.

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. D. G. APOSTALON, MAJ., HQ SAC NUC WPN OFF EXT 3125 OFFUTT AFB, NEBR. THIS REPORT SUBMITTED FROM SITE OF ACDT.

GP-1.

BT

P 6

1-6-5843

SECRET
NNNPUAI 87VZCZCHZB531VZC 925

28 JAN 66 19 45

OO RUWPUJ

ZNY SSSSS ZOV RUEPVZ

ZCZ CEUL573 EUH252CEC 848

OO RUEPVZ

DE RUTQBN 10A 0281445

ZNY SSSSS

O 281140Z JAN 66

FM 16TH AF ADN

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUVFNA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNF/DEP INSP GEN INSP SFTY NORTON AFB NALIF

RUCSC/SAC

RUCVAA/2AF BARKSDALE AFB LA

RUEHNB/8AF VESTOVER AFB MASS

RUTQBN/16AF TORREJON AB SPAIN

RUNWHU/42ADIV BLYTHEVILLE AFB OKLA

RUCTSR/822ADIV TURNER AFB GA

RUCWBU/97BW BLYTHEVILLE AFB OKLA

RUETFK/68BW SEYMOUR JOHNSON AFB NC

RUEBBAA/AFSC

RUCDSQ/AFLC

RUVGNH/SAAMA KELLY AFB TEX

RUVFNA/AFSVC KIRTLAND AFB NM

RUVHLL/00AMA HILL AFB UTAH

~~SECRET~~

~~FROM AUTOMATIC~~

ACTION
IN
OP-7, 8, 9
SE
T
AD

~~SECRET~~
~~SECRET~~
~~SECRET~~

1-3-9028

SECRET

U

WGNK/OAMA TINKER AFB OKLA

INFO RUEPBWL/USAFA CP LINDSEY AS GERMANY

RUCVSK/SAC OTSL CARSWELL AFB TEX

RUEPVZ/FC DASA SANDIA BASE NME

RUTHBH/CHI EF JUSMAG SPAIN

BT

~~RESTRICTED~~ A/C-00066 JAN 66

SUBJ: SUPPLEMENTAL REPORT NO. 6 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASDCAE); CSAF AND AF160, AF115, AFSSS-AE; AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 18 AF, 42, 822 AD (DO, DM, DS); 68 AND 97 BW(DCO, DCM, DS); SCIZ; WNAS; SWVN; OOTS; JUSMAG FOR GEN DONOVAN THIS CONSTITUTES ADDITIONAL OR CORRECTED INFO TO REPTS FROM

16 AF ADVON SECRET/RD MSGS C0010; 23 JAN 66; C0028; 24 JAN 66; C 00034; 25 JAN 66; 10004; 26 JAN 66; C00054; 27 JAN 66. THIS REPORT

COVERS REQUIREMENTS OF ATCHM'T 1 AF R 121-1.

A. NO CHANGE.

D-2

nr

1-6-5396

1-6-5532

nr

1-6-5843

PAGE TWO RUTQBN 10A

B. NO CHANGE. NO. 4 WEAPON MK28Y1, MOD 2, SERIAL NUMBER 45345
HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. INTENSIVE SEARCH OPERATIONS CONTINUE FOR NO. 4 WEAPON.

ARMY AND NAVY PERSONNEL ARE BEING USED.

NUMBER 2 WEAPON AREA INFO FOLLOWS: DURING 27 JAN MONITORING
PAN-1S ALPHA DETECTORS CONTINUED. CONTAMINATED CROPS AND FIELDS IN
THE DOWNWIND DIRECTION (SEE SUP 5 REPT) ARE NOW IDENTIFIED. THERE
IS NO APPRECIABLE CHANGE IN THE CONTAMINATION PATTERN FROM THAT
REPORTED YESTERDAY. IMMEDIATE CRATER AREA AND ACCESSIBLE AREAS IN
DOWNWIND DIRECTION WERE WATERED-DOWN. THIS RETARDS CONTAMINATED
SOIL FROM BLOWING AROUND. EOD PERSONNEL SWEEP CRATER AREA OUT TO
350 FEET IN ALL DIRECTIONS FOR POSSIBLE REMAINING FRAGMENTS.
SEARCHED NORTHEAST AND NORTHWEST QUADRANTS OUT TO ABOUT FIVE EIGHTS
OF A MILE FROM THE CRATER. PROBED OUT TO TWO AND ONE HALF MILES
SOUTHWEST DIRECTION. OVERLAPPED PART OF WESTERN SWEEP.

NUMBER 3 WEAPON AREA INFORMATION FOLLOWS. CONTINUED MONITORING OF
FIELDS WHERE CROPS WERE REMOVED. CONTAMINATED CROPS HAVE BEEN

P-3

1-6-69

SECRET

PAGE THREE RUTQSN 10R [REDACTED] RESTRICTED DATA
AND ARE BEING REMOVED BY USAF PERSONNEL. READINGS ON PAC-15 RANGED
FROM NEGLIGIBLE TO 7,500 COUNTS PER MINUTE (CPM).
DURING 27 JAN SIX AIR SAMPLES WERE TAKEN DOWNWIND FROM CRATER
AS FOLLOWS:

RADIALS IN DEGREES	DISTANCE FROM CRATER	RESULTS
265	ONE QUARTER MILE	NEG
270	ONE QUARTER MILE	NEG
286	ONE EIGHTH MILE	NEG
292	ONE EIGHTH MILE	NEG
245	260 YARDS	NEG
247	300 YARDS	NEG
252	350 YARDS	NEG

APPROXIMATELY TWO AND ONE HALF ACRES OF CROPS WERE CUT DOWN AND
STACKED FOR REMOVAL. APPROXIMATELY 100 PERSONNEL WERE DECONTAMINATED.
THESE INCLUDE CROP PICKERS, MONITORING TEAMS AND ARMY MINE DETECTOR
TEAMS. CONTAMINATED SOIL AT CRATER WAS SCOOPED UP AND BOXED. BOXES
WERE LOADED ON TRUCK, COVERED WITH TARPOLIN TO PREVENT SCATTERING
OF SOIL AND REMOVED TO NO# 2 WEAPON SITE. TRUCK WAS MONITORED AND
DECONTAMINATED AFTER USE. CONTINUED ASSISTING SPANISH PERSONNEL IN
MONITORING HOUSE EXTERIORS, ROOFS AND YARDS

P-4

SECRET

1-6-9029
E8-10-1-9029

~~SECRET~~

PAGE FOUR RUTGEM 10N 5 10 W

VILLAGE OF PALOMARES. READINGS RANGED FROM UNDETECTABLE TO 8000 CPM. MAJORITY READINGS WERE FROM 25 CPM TO 300 CPM. THE HIGHEST READINGS WERE FOUND IN VICINITY OF AIRCRAFT WRECKAGE. ANY OTHERS COMPLETING VILLAGE MONITORING TODAY.

FIFTY MORE USAF PERSONNEL EACH WITH A MACHETTE, BOOTS AND PROPER CLOTHING HAVE BEEN ORDERED TO THE SITE THEY WILL BE USED TO CUT DOWN CONTAMINATED CROPS.

PLAN TO REMOVE VERTICAL STABILIZER FROM TAIL SECTION OF AIRCRAFT BY MEANS OF INCENDIARY MUNITIONS RATHER THAN EXPLOSIVES.

AIRCRAFT WRECKAGE TURNED IN IS MONITORED. CONTAMINATED PIECES ARE PAINTED. SOMETIMES SEVERAL COATS ARE NEEDED.

PERMISSION RECEIVED TO CUT ALL CONTAMINATED CROPS IN VICINITY OF NO. 3 WEAPON AREA. ON 27 JAN, 17 CLAIMS RECEIVED. INDIVIDUALS COULD NOT SELL FISH TO LOCAL CUSTOMERS. PAYMENTS MADE IN CASH.

TOTAL \$300.00

URINE SAMPLES ANALYZED BY USAF RAD HEALTH LAB, WRIGHT PAT AFB INDICATED TWO INDIVIDUALS, SGT SIGNEY F. ROKK, USAF AND PEDRO A. LATORRE, SPANISH CIVILIAN WITH ALPHA ACTIVITY TO LEVEL OF ABOUT 100 CPM. RESPECTIVE. THIS IS POSSIBLE.

P-5

~~SECRET~~

1-6-9029

PAGE FIVE RU [REDACTED]

THAT FOREIGN MATERIAL WAS INTRODUCED INTO SAMPLES GIVING UNRELIABLE RESULTS. RESAMPLING IS NOW BEING ACCOMPLISHED IN A MORE STERILE ENVIRONMENT. IN MESSAGE TO RAD HEALTH LAB, DR. NORCROSS (AFINS) RECOMMENDED CRITERIA TO USE TO DETERMINE ACTION TAKEN FOLLOWING IDENTIFICATION OF PLUTONIUM IN URINE.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE F ABOVE.

L. NO CHANGE.

M. THE FOLLOWING DOD AND STATE DEPT STATEMENT HAS BEEN RELEASED BY 16AF IN RESPONSE TO QUERIES AS OF 1700 LOCAL 24 JAN 56: QUOTE: ELEMENTS OF THE UNITED STATES NAVY AND THE UNITED STATES ARMY ARE ASSISTING SPANISH AUTHORITIES AND THE U.S. AIR FORCE IN THE SEARCH FOR WRECKAGE OF THE B-52 AND KC-135 AIRCRAFT WHICH SUFFERED AN ACCIDENT DURING A REFUELING OPERATION JANUARY 17. AIR FORCE OFFICIALS RECONFIRMED THAT RADIOLOGICAL SURVEYS HAVE FOUND NO INDICATION OF DANGER TO PUBLIC HEALTH OR SAFETY AS A RESULT OF THE ACCIDENT.

UNQUOTE

N. NO CHANGE.

O. D.G. APOSALON, MAJ., HQ SAC, NUC WPN OFF, EXT 3125 OFFUTT AFB NEBR. THIS REPORT SUBMITTED FROM SITE OF AC DT. @-1.

BT

1-6-9029

~~SECRET~~

IMMEDIATE

29 JAN 66 TB 11

PUA452W WZB457

OO RUPUJ

~~SECRET~~

ACTION

INFO

ZNY SSSSS ZOV RUEPWZ

OR 7, 8

SE 29

EUL637 EUH547 CEF515

~~SECRET~~

TU-1011

OO RUEPWZ

DV-12/13/14

ZNY SSSSS ZFD RUTHCS

AM-15

CZCCSB7 42Z CXP A356

OO RUFFBWL RUEPWZ RUWGNH RUWGNX RUC DSQ RUWHHL RUWHNF RUWMFNA RUEBBAPE

DE RUT

BN JA 0291320

ZNY SSSSS

291235Z JAN 66

FM 16TH AF ADVON SPAIN

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUWMFNA/DIR NUC SFTY KIRTLAND AFB N H

RUWHNF/DEP INSP SFTY NORTON AFB CALIF

RUCSC/SAC

RUCYAA/HQ 2 AF BARKSDALE AFB LA

RUEBTEH/HQ 8 AF WESTOVER AFB MASS

RUTQBNA/HQ 16 AF TORREJON AB SPAIN

RUCWHU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUEISR/822ND AIR DIV TURNER AFB GA

RUCWHU/97 BW BLYTHEVILLE AFB ARK

RUEITFK/68 BW SEYMOUR JOHNSON AFB N C

RUEBBA/AFCS

~~SECRET~~

1-6-9

~~SECRET~~

S

Q/AFLC

~~SECRET~~

JWGNH/SAAMA KELLY AFB TEXAS

JWNFNA/AFSVC KIRTLAND AFB N M

JWHHL/OOAMA HILL AFB UTAH

JWGNK/OOAMA TINKER AFB OKLA

FO RUPPEWL/USAFE CP LINDSEY AS GERMANY

CVSK/SAC OTSL CARSWELL AFB TEAS

EPVZ/FC DASA SANDIA BASE N MEX

TRBH/CHIEF JUSMAG MAAG MADRID SPAIN

~~SECRET~~ 1-6-5396-00080 JAN 66.

1. SUPPLEMENTAL REPORT NO. 7 (ADVON) OF NUCLEAR ACCIDENT
(OKEN ARROW). SEC DEF FOR ASTDKAE); CSAF AND AFIGO, AFIIS,

5S-AE; AFINS; SAC FOR GEN RYAN AND DO,DM, DOSD; 2, 8, 16 AF,
822 AD (DO,DM,DS); 68 497 BV(DCO,DCM,DS); SCIZ; MCASS;

3; OOYS; JUSMAG FOR GEN DONOVAN. THIS CONSTITUTES ADDITIONAL

CORRECTED INFO TO REPTS FROM 15 AF ADVON SEC RET/RD MSGS C 0010,

JAN 66; C0028, 24 JAN 66; C00034, 25 JAN 66; C 00041, 26 JAN 66;

054, 27 JAN 66; C 00066, 28 JAN 66. THIS REPT COVER REQUIRE-

5 OF ATCHN'T 4, AFR 127-4.

~~SECRET~~ 1-6-5396-00080 JAN 66

PAGE 2 RUTQBN 3A

A. NO CHANGE.

B. NO CHANGE. NO 4 WEAPON, MK28Y1, MOD PYP SERIAL NUMBER 45345 HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. INTENSIVE SEARCH OPERATIONS CONTINUE FOR NO. 4 WEAPON.

NUMBER 2 WEAPON AREA INFO FOLLOWS: DURING 28 JAN SIXTY SOIL AND VEGETATION SAMPLES WERE COLLECTED; 30 WERE DUPLICATES FOR ANALYSIS BY THE SPANISH NUCLEAR ENERGY COMMISSION (JUNTA ENERGIA NUCLEAR). OUR SAMPLES WERE PACKED AND SHIPPED TO RAD HEALTH LAB, WRIGHT-PAT AFB. TO HOLD DOWN AIRBORNE PLUTONIUM AS MUCH AS POSSIBLE, WATERING OF CRATER AREA AND DOWNWIND CONTAMINATION PATTERN WAS ACCOMPLISHED.

NUMBER 3 WEAPON AREA INFO FOLLOWS: DURING 28 JAN APPROXIMATELY FIVE ACRES OF CONTAMINATED CROPS WERE CUT DOWN OR PICKED. THIS MAKES A TOTAL IN NO. 3 WEAPON AREA OF APPROXIMATELY 14 ACRES CROPS TAKEN DOWN. BURIAL OF CONTAMINATED CROPS HELD UP PENDING GEOLOGICAL AND HYDROGRAPHIC STUDY BY SPANISH OFFICIALS OF PROPOSED BURIAL SITE (SUP 5 REPT SAID APPROVED BURIAL SITE)

1-6-9151

P3

PAGE 3 RUTQBN 3A S E

~~SECRET~~

AFTER REMOVAL OF CROPS FROM FIELDS, MONITORING WITH PAC-12 WAS ACCOMPLISHED. READINGS RANGED FROM 80 CPM TO 20,000 CPM. ONLY THREE FIELDS HAD OVER 7000 CPM. APPROXIMATE 100 USAF PERSONS WERE DECONTAMINATED. PRIOR TO AND AFTER DEC ON A RANDOM SAMPLING OF 10 PERSONS WAS TAKEN. BOOTS, HANDS, HAIR AND FATIGUES WERE MONITORED. READINGS AFTER DEC ON WERE ZERO OR INSIGNIFICANT. ON 28 JAN EIGHT AIR SAMPLES WERE TAKEN DOWNWIND OF CROP PICKERS. RESULTS WERE:

RADIALS IN DEGREES	DISTANCE FROM CRATER	RESULTS
310	ONE EIGHTH MILE	NEG
301	ONE EIGHTH MILE	NEG
316	ONE EIGHTH MILE	NEG
220	ONE QUARTER MILE	NEG
222	ONE QUARTER MILE	NEG
216	ONE QUARTER MILE	NEG
218	ONE QUARTER MILE	NEG
224	ONE QUARTER MILE	NEG

STAPLEX WAS CALIBRATED BEFORE AND AFTER READINGS.

DURING 28 JAN THE CAMP SITE WAS MONITORED THROUGHOUT WITH PAC-15. RESULTS WERE NEGATIVE.

P4

1-6-9151

~~SECRET~~

PAGE 4 RUTQBN 3A S E C [REDACTED]

CONTINUED PROVIDING ASSISTANCE TO SPANISH PERSONNEL IN MONITORING IN VILLAGE OF PALOMARES. USAF AND SPANISH NEG PERSONNEL ARE CONSTRUCTING MAPS AND COMPILING READINGS. L.O. REPLACEMENT PAC-15 PROBE FACES SLOWED DOWN MONITORING. ESTIMATING COMPLETING VILLAGE MONITORING TODAY.

MHU-20/C CLIP IN ASSEMBLY REMANENT WAS MONITORED WITH PAC-15. MOST READING WERE UNDETECTABLE. ONE SMALL SPOT READ 500 CPM AND A FEW OTHER 100 TO 300 CPM. THESE READINGS ARE INSIGNIFICANT. AREA ON KC-135 NUMBER 4 ENGINE COWLING READ 400,000, CPM. THIS WAS PAINTED. READING AFTER PAINTING WAS 1500 CPM, CONSIDERED INSIGNIFICANT.

ON 28 JAN TWENTY-EIGHT EMERGENCY CLAIMS WERE PAID TO SPANISH CIVILIANS. MAIN REASON: INABILITY TO MARKET CROPS OR FISH. PAYMENT WAS \$850.00. TOTAL NO. EMERGENCY PAYMENTS THRU 28 JAN WERE 46. (29 TO FISHERMEN). TOTAL AMT PAID TO DATE WAS \$1285.90. KNOWN POTENTIAL CLAIMS ARE APPROXIMATELY 300 AT APPROXIMATELY \$50,000.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE F. ABOVE.

[REDACTED] 1-6-9151

P51

PAGE 5 RUTQBN 3A [REDACTED]

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE.

O. D.&. APOSTALON, MAJ., HQ SAC, NUC WPN OFF, EXT 3125, OFFUTT
AFB, NEBR. THIS REPORT SUBMITTED FROM SITE OF AC DT. GV-1

BT

7-6-9151

P6

SECRET

SECRET

NNNNPUA522VV WZB481

30 JAN 66 15 54

IMMEDIATE

OO RUWPUJ

ZNY SSSSS ZOV RUEPWZ

EUL655UH651CEE111

OO RUEPWZ

DE RUTQBN 2A 0301315

ZNY SSSSS

0 301130Z JAN 66

FM 16TH AF ADVON SPAIN

TO RUEKDA/SEC DEF

RUEAHQ/CSAF

RUVMFNA/DIR NUC SFTY KIRTLAND AFB NMEX

RUVHNF/DEP INSP SFTY NORTON AFB CALIF

RUCSC/SAC

RUCVAA/HQ /2 AF BARKSDALE AFB LA

RUETBN/HQ 8 AF WESTOVER AFB MASS

RUTQBNA/HQ 16 AF TORREJON AB SPAIN

RUCWU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCWU/97 BW BLYTHEVILLE AFB ARK

RUETFX/68 BW SEYHOJR JOHNSON AFB N C

RUEBBAA/AFSC

RUCDSQ/AFLC

RUVGMH/SAAMA KELLY AFB TEXAS

ACTION	TIME
OR-7, 8	SE-9
	TG-1011
	DV-121211
	AM-15

P1

SECRET

7-6-9189

CPNS DISREP

SECRET

SECRET

SECRET

SECRET

~~SECRET~~

M

FNA/AFSWC KIRTLAND AFB N M

RUWHKL/OOAMA HILL AFB UTAH

RUWGJK/OOAMA TINKER AFB OKLA

INFO RUFPEWL/USAFE CP LINDSEY AS GERMANY

RUCVSK/SAC OTSL CARSWELL AFB TEXAS

RUEPWZ/FC DASA SANDIA BASE N MEX

RUTHBH/CHIEF JUSMAG MADRID SPAIN

BT

~~SECRET RESTRICTED DATA~~ 00085 JAN 66.

SUBJ: SUPPLEMENTAL REPORT NO. 8 (ADVON) OF NUCLEAR ACCIDENT
 (BROKEN ARROW). SEC DEF FOR ASTD (AE): CSAF AND AFIGO, AFIIS,
 AFSSS-AE; AFINS: SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF,
 42, 822 AD(DO, DM, DS); 58 & 97 BW (DCO, DCM, DS); SCIZ: MCASS;
 SWW; COYS; JUSMAG FOR GEN DONOVAN. THIS CONSTITUTES ADDITIONAL
 OR CORRECTED INFO TO REPTS FROM 16 AF ADVON SECRET/RD MSGS C0010,
 23 JAN 66; ¹⁻⁶⁻⁵³⁹⁶ C0028, 24 JAN 66; ¹⁻⁶⁻⁵⁵³² C0034, 25 JAN 66; ^{NIR} C0041, 26 JAN
 66; ¹⁻⁶⁻⁵⁸⁴³ C 00054, 27 JAN 66; ^{NIR} C00066, 28 JAN 66; ¹⁻⁶⁻⁹¹⁵¹ C00080, 29 JAN 66.

THIS REPT COVERS REQUIREMENTS OF AICM 3, 4, AFR 127-4.

P2

~~SECRET~~

1-6-9189

PAGE 2 RUTQBN 2A S E [REDACTED]

A. NO CHANGE.

B. NO CHANGE. NO. 4 WEAPON, MK28Y1, MOD. 2, SERIAL NUMBER 45345 HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

THE INTENSIVE SEARCH FOR WEAPON NO. 4 STILL CONTINUES.

MR. DOUG EVANS HAS RETURNED FROM TORREJON AB WHERE HE ASSISTED NORTH AMERICAN AVIATION REPRESENTATIVES IN THE CALIBRATION OF DETECTION EQUIPMENT, TO BE USED IN AN ATTEMPT TO LOCATE NUMBER 4 WEAPON.

A MEETING WAS HELD BETWEEN SPANISH PERSONNEL AND USAF PERSONNEL.

A GREEVENT WAS SOUGHT AND GRANTED FOR BUYING PRODUCE (TOMATOES, PIGS, CHICKENS, FISH, ETC.) AND UTILIZING THIS PRODUCE FOR TROOP CONSUMPTION.

THE 12 EOD PERSONNEL FROM USAF HAVE DEPARTED FOR THEIR HOME STATIONS. NECESSARY EOD FUNCTIONS ARE NOW ACCOMPLISHED BY USAF (SAC), NAVY AND/OR ARMY PERSONNEL.

NUMBER 2 WEAPON AREA INFO FOLLOWS: SCRAPING OFF OF TOPSOIL IN AREA NO. 2 WAS BEGUN. A ROAD HAS BEEN GRADED ACROSS THE CONTAMINATED

P3

[REDACTED] 1-6-9189

PAGE 3 RJTQBN 2A [REDACTED]

AREA TO SITE NO.2 . THIS ROAD WILL BE USED TO HAUL IN ITEMS ETC FOR BURIAL. AFTER SCRAPING OFF TOP SOIL TO AN APPROXIMATE DEPTH OF 2 INCHES MONITORING READINGS WERE ZERO. SOME ISOLATED HOT SPOTS WERE NOTED APPARENTLY THESE SPOTS WERE NOT SCRAPED DEEP ENOUGH. SCRAPINGS WERE MADE INTO ROWS. PAC-IS READINGS OF SCRAPINGS RANGED FROM ZERO TO 2000CPM. SCRAPER OPERATOR DID NOT BECOME CONTAMINATED DURING SCRAPING OPERATIONS. OTHER PERSONNEL GATHERED SOME CONTAMINATION ON THEIR BOOTIES AND RUBBER GLOVES. AFTER OPERATIONS WERE HALTED PERSONNEL AND EQUIPMENT WERE DECONTAMINATED.

NUMBER 3 WEAPON AREA INFO FOLLOWS: CROP CLEARING IS CONTINUING. APPROXIMATELY 4 ACRES WERE CLEARED TODAY. THIS MAKES AN APPROXIMATE TOTAL OF 18 ACRES CLEARED. FIFTY ADDITIONAL CROP CLEARERS HAVE ARRIVED. TWENTY CROP CLEARERS AND ARMY MINE SURVEY TEAM WERE MONITORED AT DECONTAMINATION STATION. READINGS RANGED FROM ZERO TO 850 CPM. CLEARED FIELDS WERE REMONITORED AND READINGS RANGED FROM ZERO TO 2000 CPM. THERE IS A CREEPING EFFECT OF CONTAMINATION NOTICEABLE. FIELDS PREVIOUSLY REVEALING ZERO ARE NOW READING UP TO 6000 CPM. THIS PHENOMENA IS NATURAL AS IT WAS NOTED IN NEVADA TESTS. AIR SAMPLES AROUND SITE NO. 3 FOR 29 JANUARY:

RADIALS IN DEGREES

DISTANCE FROM CRATER

RESULTS

P4

[REDACTED] 1-6-9189

PAGE 4 RUTQBN 2A

251	ONE HALF MILE	NEG
257	ONE HALF MILE	50 CPM
246	ONE HALF MILE	NEG
195	ONE QUARTER MILE	100 CPM
190	ONE QUARTER MILE	NEG
185	ONE QUARTER MILE	100 CPM
167	ONE QUARTER MILE	NEG

THE ABOVE RESULTS ARE CONSIDERED NEGLIGIBLE.

MONITORING WITHIN CAMP SITE AREA PROVED NEGATIVE.

CONTINUED ASSISTING SPANISH NEC MONITORS IN THE VILLAGE OF PALOMORES. ASSISTED IN WASHING DOWN 2 HOUSES. READINGS IN FIELDS RANGED FROM ZERO TO 1000 CPM.

CLAIMS: TOTAL AMOUNT OF CLAIMS PAID ON 29 JAN 66 WERE \$1850.

TOTAL CLAIMS PAID TO DATE IS \$3135. ESTIMATE OF POTENTIAL CLAIMANTS IS 600 AND POSSIBLE AMOUNT OF \$100,000.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE F. ABOVE.

P5

7-6-9189

PAGE 5 RUTQBN 2A [REDACTED]

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE.

O. A.B. BRUBAKER, CAPTAIN, HQ 16AF, DM 4E, EXT 3003, TORREJON AB,
SPAIN. THIS REPORT SUBMITTED FROM SITE OF ACCIDENT. GP-1

BT

pb

[REDACTED] 7-6-9189

PRIORITY

ACTION INFO

OP 789 SE 10
TG 11, 12
DV 13, 14, 15
FAA 16

NNNNPUA749TUA100ETJS05

5 FEB 66 20 59

PP RUPUJ

DE RUMPA2060 0361930

ZN 55555

F 1920Z

FM USAEC WALTER F WHITE ALBUQUERQUE NMEX

TO RUEAHO/C OF S USAF WASHDC /SERIES C/

RUCSC/CINCSAC OFFUTT AFB NEB /SERIES D/

RUTBMA/16TH AF TORREJON AB MADRID SPAIN PLS PASS TO D J HART /SERIES E/

INFO RUEPKG/USAEC DMA C OLC C MALITZ WASHDC /SERIES F/

RUEPBN/CINCSAF WIESBADEN GERMANY /SERIES G/

RUMFNA/DNS KIRTLAND AFB ALBUQUERQUE NMEX /SERIES H/

RUMPU /COMR FC/DASA ATTN FC OP /SERIES I/

AF
BT

THE FOLLOWING AEC/AIO ACCIDENT OBSERVER WILL
DEPART ALBUQUERQUE ON FEBRUARY SIX VIA COMMERCIAL AIRCRAFT FOR MADRID,
SPAIN.

PAUL H. SCHNEIDER, AEC "Q" CLEARANCE NO. AB-53796-AB, DATED 11/21/52
MR SCHNEIDER IS THE REPLACEMENT FOR DAVID J HART, AEC TEAM CHIEF AT THE
ACCIDENT SCENE. HE WILL ARRIVE MADRID MONDAY, FEBRUARY SEVEN, ABOARD
TWA FLIGHT 800. A TWO DAY OVERLAP IS PLANNED FOR BRIEFING AND
ORIENTATION PRIOR TO MR HART'S RETURN.

MR SCHNEIDER IS AEC "Q" CLEARED AND IS AUTHORIZED ACCESS TO TOP SECRET
THIS DOCUMENT CONTAINS

OPERATION WDS (S-154)

2-6-3581

BT

10701000727

~~SECRET~~

~~SECRET~~

[REDACTED]

5 FEB 66 14 49

IMMEDIATE

PUA717WZB688

[REDACTED]

OO RUWPUJ

ZNY SSSSS ZOV RUEPWZ ZDG

UL963

OO RUEPWZ

DE RUTQBN 002A 0361130

ZNY SSSSS

O 051100Z FEB 66

FM 16T AF ADVON

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAN

RUWMFNA/DIR NUG SFTY KIRTLAND AFB NM

RUWHNF/DEP INSPSY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCVAA/HQ 2 AF BARKSDALE AFB LA

RUEHB/HQ 8 AF WESTOVER AFB MA S

RUTQBN/HQ 16 AF TORREJON AB SPAIN

RUCWHU/42ND AIR DIV BLYT EVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCWHU/97 BW BLYT EVILLE AFB ARK

RUETFK/68 BW SEYMOUR JOHNSON AFB NC

RUE3BAA/AFSC ANDREWS AFB MD

RUCDSG/AFLC WPAFB

RUWGNH/SAAMA KELLY AFB TEXAS

RUWMFNA G/AF SWC KIRTLAND AFB NM

ACTION

INFO

OP 1,8,9

SE-10

TG 11, 12

DV 13, 14, 15

AM 16

[REDACTED]

IMMEDIATE

[REDACTED]

~~SECRET~~

2-6-3520

WPNS DISP

~~SECRET~~

U

██████████ ██████████
WHHL/OOAMA HILL ANB UTAH

RUWGNK/OOAMA TINKER AFB OKLA

RUWTBAG/DAD ATB E(LIN AFB FLA

INFO RUFFBWL/USAFE CP

RUCVSK/SAC OTSL CARSWLL AFB TEXAS

RUEPWZ/FC DASA SANDIA AFB NM

RUTHB /CHIEF JUSMAG SPAIN

BT

S E C R E T RESTRICTED DATA C-00160 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NO. 14 (ADV ON) OF NUCLEAR ACCIDENT
(BROKEN ARROW), SEC DEF FOR ASTD (AT); CSAF AND ANIGO, AFIIS,
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16 AF,
42, 822 AD (DO, DM, DS); 68 & 97 BW (DC O, DCM, DSGLV SCIZ; MCA S;
SWVN; OOYS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES
ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16TH ADV ON SEC RET/RD
MSGs C 0010,, 23 JAN 66; C 0028, 24 JAN 66; C00034, 25 JAN 66;
C 0041, 26 JAN 66; C 0054, 27 JAN 66; C 0066, 28 JAN 66;
C 0080, 29 JAN 66; C 0085, 30 JAN 66; C 0098, 31 JAN 66;

P-2

~~SECRET~~

██████████ ██████████

2-6-3570

PAGE 2 RUTGBN 002A

C00111, 1 FEB 66; C 00125, 2 FEB 66; C 00134, 3 FEB 66; C 20149, 4 FEB 66; 5 FEB 66. THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, ANR 127-4.

A. NO CHANGE

B. NO CHANGE. NUMBER 4 WEAPON, MK28Y1, MOD 2, SERIAL NUMBER 45345, HAS NOT BEEN FOUND.

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. THE INTENSIVE SEARCH FOR WEAPON NR. 4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL: DURING THE DAILY MEETING WITH THE SPANISH NEC PERSONNEL NO ITEMS OF SPECIFIC SIGNIFICANCE WERE COMPLETED.

SITE NR. 2 INFO TO FOLLOW: THE REMOVAL OF SOIL FROM SITE NR. 3 AND TRANSPORTING TO SITE NR 2 IS PROGRESSING QUITE SUCCESSFULLY. WATERING OF SOIL AND VEGETATION TO PREVENT DUST IS ALSO GOING ALONG NICELY. LIME IS PLACED ON VEGETATION TO ASSIST IN DECOMPOSITION.

SITE NR 3 INFORMATION TO FOLLOW: SOIL SCRAPPING OPERATIONS ARE CONTINUEING. 12 TRUCK LOADS OF SOIL HAS BEEN REMOVED (APPROXIMATELY 30 CUBIC YARDS) TO SITE NR. 2. PLOWING OPERATIONS ARE CONTINUING.

P-3

2-6-3570

~~SECRET~~

SITE NR. 5 INFO FOLLOWS: MONITORING OF SEVERAL HOUSES WAS ACCOMPLISHED. WASHING OF HOUSES IS BEING ACCOMPLISHED AS NECESSARY.

SITE NR. 6 SEARCH MONITORING WITHIN SITE NR. 6 IS CONTINUING. CONTAMINATION HAS BEEN FOUND IN ISOLATED SPOTS. DUPLICATE SAMPLES OF BEES, THE HIVE AND HONEY HAVE BEEN COLLECTED AND SENT FORWARD TO MADRID AND WPAFB FOR TEST AND KAUSZBEY.

CAMP SITE: MONITORING RESULTS MADE WITHIN THE CAMP SITE HAVE ARE ALL NEGATIVE.

CLAIMS: EMERGENCY PAYMENTS MADE ON 4 FEB WERE 11 FOR AN AMOUNT OF 9251.67. TOTAL NUMBER OF PAYMENTS MADE TO DATE IS 96, TOTAL AMOUNT OF EMERGENCY PAYMENTS IS \$4278.01.

G. NO CHANGE

H. NO CHANGE

I. NO CHANGE

J. NO CHANGE

K. SEE "F" ABOVE

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. A.S. BRUOKER, CAPT, 16AF, DMAE, EXT 3003, TORREJON AB,

X

SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1.

BT

~~SECRET~~

2-6-3570

~~SECRET~~

~~SECRET~~

~~SECRET~~

PRIORITY

NNNNEPUA622 TUA081QTC323 10 FEB 66 10 16

PP RUWPUJ

DE RUTQBN 001A 0410840

ZNY SSSSS

P 100730Z FEB 66

FM 16AF ADVON SPAIN

ACTION	INFO
OP-7,8	SE-9 TG-10,11 DV-12,13 AM-15

TO RUWPQA/US ATOMIC ENERGY COMMISSION ALBUQUERQUE NM

RUEPXG/USAEC WASH DC

RUWPQSSANDIA CORPORATION ALBBA JEX

RUWPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NM

RUWMFNA/DIRECTORATE OF NUCLEAR SAFETY KIRTLAND AFB NM

RUWPUJ/FC DASA SANDIA BASE NHEX

BT

~~RESTRICTED DATA~~

~~SECRET~~

SECRETED DATA C00195. FEB 66. FOR MANAGER USAEC ALBUQUERQUE NM; DIR OF MIL APPLICATION USAEC WASH; W. R. HOAGLAND DEPT 1540 ORG 9320 SANDIA CORP. FROM AEC NUCLEAR WEAPON SAFETY TEAM. STATUS OF SEARCH OPERATIONS AT PALOMARES, SPAIN ACCIDENT. REF SRD C-00171 DIG. DETAILED SEARCH OF THE LAND IMPACT AREA IS 50 PERCENT COMPLETE. FIVE MINE SHAFTS AND THREE CRATERS HAVE BEEN MARKED FOR FURTHER INVESTIGATION WEDNESDAY. PUEBLLO ROOTS WATER WELLS, AND FRESHLY PLOWED FIELDS ARE ALSO TO BE CHECKED. NAVY SEARCH OPERATIONS HAVE PRODUCED A FEW B-52 AIRCRAFT PARTS ONLY. GP-1;

~~SECRET~~

~~SECRET~~

2-6-4011

201011/02-3

~~SECRET~~

~~SECRET~~ RESTRICTED
ATOMIC ENERGY ACT 1954

7 FEB 66 23 31

IMMEDIATE

EPJA969TUA364QTA016

OO RUWPUJ

DE RUTQBN 5A 0381625

ZNY SSSSS

O 071615Z FEB 66

FM 16TH AF ADVON

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUWMFNA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNF/DEP INSP GEN INSP SFTY MORTON AFB CALIF

RUCSC/SAC

RUCVAW/2AF BARKSDALE AFB LA

RUETHB/8AF WESTOVER AFB MASS

RUTQNA/16AF TORREJON AB SPAIN

RUCVHU/42AD IV BLYTHEVILLE AFB OKLA

RUETSR/822AD IV TURNER AFB GA

RUCVHU/97BW BLYTHEVILLE AFB OKLA

RUETFK/68BW SEYMOUR JOHNSON JFB NCR

RUZBBAA/AFSC

RUCDSQ/AFLC

CUMBNH/SAAMA KELLY AFB TEX

ACTION	INFO
OR 7,8	SE-9
	TG-10,11
	DV-12,13,14
	AM-15

corrected copy of 1-6-3646

~~RESTRICTED DATA~~

~~ATOMIC ENERGY ACT 1954~~

~~THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION EXCEPT WHERE SHOWN OTHERWISE~~
NO. 5

PI

~~SECRET~~

~~RESTRICTED DATA~~
~~ATOMIC ENERGY ACT 1954~~

2-6-3663
UPNS DISCREP

initial 24 Oct 66
5

~~SECRET~~ 1958

RUWMFNA/AFSWC KIRTLAND AFB NM
LRUWHHL/OOAMA HILL AFB UTAH
RUWGNK/OCAMA TINKER AFB OKLA
RUWTBTA/DAD ATB EGLIN AFB FLA
INFO RUFFBWL/USAFE CP LINDSEY AS GER
RUCVS/SAC OSL CARSWELL AFB TEX
RUEPVZ/FC DASA SANDI BASE NMEX
RUTHBH/CHIEF JUSMAG SPAINNO

BT

~~SECRET~~
~~RESTRICTED~~

C-10124 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NO. 15 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD KAE); CUAJ AND AFIGO, AFIIS,
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, BOSD; 2, 8, WQYAF,
42, 822 AD (DO, DM, DS); 68 & 97 BW (DCO, DCM; DS); SCIZ; MCASS; O
SWVN; OOYS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONDITITUTES

ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET/RO

MIR 1-6-5396 1-6-5532
MSGs C0010, 23 JAN 66; C0028, 24 JAN 66; C0034, 25 JAN 66;
MIR 1-6-5843 1-6-9029
C0041, 26 - 66; C00034, 27 JAN 66; C00066, 28 JAN 66;
1-6-9151 1-6-9189 1-6-9216
C00080, 29 JAN. 66, C00082, 30 JAN 66; C00098, 31 JAN 66;

P2

2-6-3663

~~SECRET~~

VAGE TWO RUT GBN 5A

2-6-3081

N/A

2-6-3458

C00111, 1 FEB 66; C00123, 2 F CL66; C00134, 3 FEB 66; C00149, 4 FEB 66; C00160, 5 FEB 66; 7 FEB 66. THIS RDPT COVERS REQUIREMENTS OF ATCHMT 4, AFR 127-4, GP-1

- A. NO CHANGE.
- B. NO CHANGE. WEAPON NUMBER 4, MK28Y1, MOD 1, SERIAL NUMBER 45845, HAS NOT BEEN FOUND.
- C. NO CHANGE.
- D. NO CHANGE.
- E. NO CHANGE.

F. THE SEARCH FOR WEAPON NUMBER 4 IS STILL CONTINUING.

SITE 2 INFO TO FOLLOW; SOIL REMOVAL FROM SITE NBR 3 CONTINUES. 22 ADDITIONAL TRUCK LOADS (55 CUBIC YARDS) HAVE BEEN TRANSPORTED TO THE TEMPORARY BURIAL PIT AT SITE NBR 2. AS OF 0800 HOURS, 7 FEB 66 A GRAND TOTAL OF 34 TRUCK LOADS (102W CUBIC YARDS) HAD BEEN REMOVED TO THE TEMPORARY BURIAL PIT AT SITE NBR 2. CONTROL OF DUST BY WATERING HAS BEEN SUCCESSFUL. DETAILED MONITORING IS BEING ACCOMPLISHED THROUGHOUT THE AREA. DETAILED MONITORING IS BEING ACCOMPLISHED THROUGHOUT THE AREA. ALL CONTAMINATED CROPS HAVE BEEN CUT DOWN AND STACKED. THESE STACKS OF CONTAMINATED CROPS WILL BE PLACED IN THE TEMPORARY BURIAL PIT AFTER COMPLETION OF THE SOIL REMOVAL.

PERFORMED AT SITE NBR 3

2-6-3663

103

[REDACTED] 54
PAGE THREE RUTQBN 5A S E [REDACTED] RESTRICTED DATA

SITE 3 INFO TO FOLLOW: THE SCRAPING OFF OF TOPSOIL WHICH HAS A READING OF 7000 VPM OR MORE IS CONTINUING. PRIOR TO THE SCRAPING OF AN AREA IT IS WATERED DOWN TO PREVENT THE SPREAD OF DUST. AIR SAMPLES TAKEN DURING THE SCRAPING OPERATIONS INDICATE NEGATIVE. THE ROAD BETWEEN SITE NBR WW AND SITE NBR 3 IS CONTINUOUSLY WATERED TO PREVENT DUST;

SITE 5 INFO TO FOLLOW: THE MONITORING OF HOUSES AND WELLS IS CONTINUING. ISOLATED AREAS OF CONTAMINATION OF 7000 CPM OR MORE ARE IDENTIFIED. DECONTAMINATION OF THESE IDENTIFIED AREAS IS CONDUCTED UNTIL A READING OF LESS THAN 7000 CPM IS ATTAINED. THE CISTERN AT THE SCHOOL STILL INDICATES SOME COUNTS OF OVER 7000 CPM. THE DECONTAMINATION OF THIS CISTERN IS BEING REACCOMPLISHED.

SITE 6 INFO TO FOLLOW: USAF AND SPANISH MONITORS ARE PERFORMING DETAILED MONITORING IN THE PRKNNM OF VILLARICOS AND THE AREA ADJACENT TO THE PUEBLO. ISOLATED READINGS HAVE VARIED FROM ZERO TO 5,000 CPM;

MISCELLANEOUS: CAMP SITE MONITORING CONTINUES TO REVEAL NEGATIVE RESULTS. SEA WATER AND SHOWER EFFLUENT TESTS ARE ALSO NEGATIVE. 2,000 URINE ZOTTLES AND 1000 URINE BAGS HAVE BEEN DELIVERED TO THE SPANISH NEC PERSONNEL. PAC-15 STATUS IS GOOD. OF 5 TESTERS.

AVAILABLE

RY

[REDACTED] 2-6-3663

FOI 10160097

PAGE FOUR RUTQBN 9A. SSE [REDACTED]

19 ARE OPEGATIONAL. 34 URINE SAMVLES WERE COLLECTED ON 5 FEB, 62
URINE SAMPLES WERE COLLECTED ON 6 FEB, ALL HAVE BEEN FORWARDED TO
WPAFB FOR TESTING.

CLAIMS: PAID TWO EMERGENCY CLAIMS ON 5 FEB FOR A TOTAL OF \$50.00.
TOTAL EMERGENCY CLAIMANTS TO DATE IS 98, TBIAL PAYMENT IS \$4,331.00

- G. NO CHANGE
- H. NO CHANGE.
- I. NM CHANGE.
- J. CO CHANGE.
- K. SEE "F" ABOVE
- L. CO CHANGE.
- M. NO CHANGE.
- N. E CHANGE.

O. A.B. BRUBAKER, CAPTAIN, HQ 16AF, DM4E, EXT 3003, TGRREJON AB,
SPAIN. THIS REPORT SUBMITTED FROM ACCIDENT SITE. GP-1.

BT
PS

2-6-366B

[REDACTED]

~~SECRET~~

PAGE 2 RUT

2-6-3452 3-6-3570 2-6-3646 2-6-3895
C 00149, 4 FEB 66; C 00160, 5 FEB 66; C 00174, 7 FEB 66; C 00193.
2-6-5316 2-6-5310 2-6-3221 3-6-3225
C 00323, 23 FEB 66; C 00351, 27 FEB 66; C 00379, 2 MAR 66; C 00423,

7 MAR 66; 17 MAR 66. THIS REPT COVERS REQUIREMENTS OF ATICH 4, AFR
127-4. GP-1.

A. NO CHANGE.

B. NO CHANGE, WEAPON NR. 4, MK 28YL, MOD 2, SERIAL NUMBER 4545, HAS
NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE. E. NO CHANGE. F. THE SEARCH FOR WEAPON NR 4 STILL CONTINUES.

THE FOLLOWING

ACTIVITIES WERE CONDUCTED BETWEEN 1855 HOURS 6 MARCH 1966 AND 1800
HOURS 13 MARCH 1966.

SITE NR 2 INFO TO FOLLOW: ALL PLOWING AND MULCHING COMPLETED ON
7 MARCH 1966. DRUMS FOR THE SHIPMENT OF SOIL AND VEGETATION ARRIVED
AND PROCEDURES TO FILL AND SEAL DRUMS WERE WORKED OUT.

SITE NR 3 INFO TO FOLLOW: THE REPLACEMENT OF TOP SOIL AND ROCK
WALL FENCES COMPLETE AND PLOWED. CISTERN REPAIR. WHITE WASHING OF
HOUSES AND REPAIR OF IRRIGATION DITCHES COMPLETED. THIS SITE IS

P-3

~~SECRET~~

73-6-4398

SECRET
E 3 RUTQBN 6A [REDACTED]

CONSIDERED COMPLETE.

SITE NR 5 INFO TO FOLLOW: THIS SITE IS COMPLETED.

MISCELLANEOUS: CAMP MONITORING CONTINUES TO BE NEGATIVE.

INGENT MONITORING CONTINUES ON OUTGOING PERSONNEL, VEHICLES AND
EQUIPMENT. 186 PERSONNEL WERE PROCESSED THROUGH THE MONITORING

STATION. 844 SEPERATE PLOTS COVERING 385 ACRES HAVE BEEN RETURNED TO
LANDOWNERS. THE ONLY REMAINING PLOT TO BE RETURNED TO LANDOWNERS IS

A TEMPORARY PIT IN SITE NR 2 CONTAINING CONTAMINATED SOIL AND
DECONTAMINATION STATION. 1214 VEGETATION AND SOIL FILLED DRUMS ARE ON THE BEACH

AWAITING ARRIVAL OF THE USS BOYCE. ALL DRUMS WERE OFF LOADED ON

13 MARCH 1966 AND THE ALMA VICTORY DEPARTED 1400A 13 MARCH 1966.

AC-119S HAVE BEEN SHIPPED TO TORREJON AIR BASE FOR RETURN TO
OPERATING BASES 11 MARCH 1966.

TOTAL FINAL CLAIMS PAID; 43 FOR \$35,880.00.

/A

/A

/A

/A

SEE "F" ABOVE.

NO CHANGE

4 RUTQBN 6A [REDACTED]

NO CHANGE

NO CHANGE

BY COLONEL A.E. WHITE, 16TH AIR FORCE (DE), EXT 3420. THIS REPT

PREPARED FROM ACCIDENT SITE. GP-1.

3-6-4398

SECRET [REDACTED]

FC/021100 [REDACTED]

PRIORITY

NNNEAPUA465TUA780TC689

17 MAR 66

PP RUWPUJ

DE RUTQEN 6A 0761420

ZNY SSSSS

P 171407Z MAR 66

FM16ADVON SPAIN

T.O. RUWPPQA/USAEC ALBUQUERQUE NMEX

INFO RUWPQS/SANDIA CORP ALBUQUERQUE N MEX

RUWPQL/LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX

RUWPUJ/FC DASA SANDIA BASE ALBUQUERQUE NMEX

RUEPXG/USAEC WASH DC

75

~~SECRET~~
S. P. ~~SECRET~~ -00497 MAR 66. AEC ABQ/FOR W F WHITE, AEC WASH/FOR LCDR HEDRICK DIV OF MIL APPLN, SANDIA CORP/FOR DEPTS 9320 AND 1540, LASL/FOR FRANK DUNN, DASA/FOR LCCL JOHNSON. SUBMERSIBLES HAGE LOCATED A PARACHUTE COVERED OBJECT AT A DEPTH OF ABOUT TWO THOUSAND FIVE HUNDRED FIFTY FEET. AWAITING POSITIVE IDENTIFICATION OF THE COVERED OBJECT AS THE MISSING WEAPON. WILL ADVISE WHEN CONFIRMED. FROM E W GRIFFITH, AEC. GP-4.

BT

ACTION INFO

OP. 789 SE-10
Called 0835 TG-11/72
Sgt Swan DU-13/14/5
AM-10

Detail 24 Oct 66

~~SECRET~~
No 12

3-6-472
Wpms

~~SECRET~~
0761420

PAGE 2 RUTQBN [REDACTED]

~~SECRET~~

THE TARGET AND DETERMINED IT HAS SLID ABOUT TWENTY FEET DOWN SLOPE. NAVY SUGGEST RESIST OPTIMISTIC ESTIMATE FOR SWIFT RECOVERY DUE TO WEATHER, OPERATIONAL ENVIRONMENT, EXPERIMENTAL TECHNIQUES, AND PREVIOUS TARGET POSITION. WHEN WEATHER PERMITS WILL COMMENCE POSITIONING DANFORTH ANCHOR NEAR TARGET USING MIZAR AND TRANSPONDERS. ANCHOR CABLE WILL CARRY RECOVERY DEVICES FOR DELIVERY TO THR TARGET BY ALVIN. SEA/WIND CONDITIONS CRITICAL. NEW SUBJECT SOITREMOVAL. 2,523 DRUMS NMW LOADED ABOARD USNS BOYCE. EXPECT TO COMPLETE LOADING ON 22 MAR 66.

BT

~~SECRET~~

3-6-5024

R2

PAGE 2 RUWMFNA1507 [REDACTED]

MR. STU ASSELIN, SANDIA CORPORATION, TO 16TH ADVON
IMMEDIATELY AS ON-SCENE TECHNICAL REPRESENTATIVE OF
THE DESIGN AGENCY. ASSELIN PLANS TO ARRIVE MADRID
221300Z ON TWA 900. THIS DIRECTORATE REQUESTS THAT
FULL TECHNICAL SUPERVISION BE EXERCISED IN THE
RETRIEVAL, RENDER-SAFE, AND PACKAGING OPERATIONS IN
ORDER THAT MAXIMUM POST-MORTEM BENEFITS ARE DERIVED
FOR FUTURE NUCLEAR SAFETY CONSIDERATIONS. ASSELIN
CLEARANCE BY SEPARATE MESSAGE. GP-4.

BT P 2 [REDACTED]

3-6-5083

[REDACTED]

~~SECRET~~

22 MAR 66 11:30

PRIORITY

PUA330YTIH870

PP RUWPUJ

DE RUTQBN 2 0810945

ZNY SSSSS

P 220903Z

FM 16AF TORREJON AB SPAIN

TO RUWPQA//7SAEC ALO ALBUQUERQUE NMEX

RUEPXG/USAEC WASH D C DMA

RUMPQS/SANDIA CORP ALBUQUERQUE NMEX

RUWPQL/DIRECTOR LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NMEX

RUMFNA/DIRECTOR OF NUCLEAR SAFETY KIRTLAND AFB NMEX

RUWPUJ/COMMANDER FC DSA ALBUQUERQUE NMEX

ACTION	INFO
OP-7,8,9	SE-10
	TG-11,12
	DU-13,14,15
	Am-16

BT

DOC 13003 MAR 66. FROM E.W. GRIFFITH, AEC.

ATTN: W.F. WHITE ATTN: LCDR G. HEDRICK ATTN: W.R. HOAGLAND, 154

ATTN: R. C. MAYDEW, 9320 ATTN: F. DUNN

WILL BRIEF STU ASSELIN PRIOR TO HIS DEPARTURE FOR ACCIDENT SCENE. WINDS FROM 30-35 KNOTS CONTINUED TO HAMPER RECECOVERY OPERATIONS THROUGH 21 MARCH. FORECAST IS FOR CALM WEATHER FOR NEXT 24 HOURS. BARRELS ARE ALL FILLED AND TOTAL 4,879. DEPARTURE OF CARRIER VESSEL BOYCE MAY BE DELAYED DUE TO SLOW DOWN IN LOADING OPERATION CAUSED BY WIND. GP-1.

~~SECRET~~

3-6-5140
WPN'S DISCP

R1

ENTR...

22 MAR 66 20 15

[REDACTED]

PRIORITY

PUA446TUA882QTC434

PP RUWPUJ

DE RUTQBN 7 081153Z

ZNY SSSSS

P 221500Z

FM 16AF TORREJON AB SP

TO RUWPQA/AEC ALO SANDIAB NMEX

RUEOFSNZEMIEC WASH DC

RUWPQS/SANDIA CORP ALBUQUERQUE NM

RUWPC/DIR LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NM

RUMFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NM

RUWPUJ/COMMANDER FC DASA ALBUQUERQUE NM

BT

[REDACTED] OGD 13005 MER 66. FROM. 2. GRIFFITH, AEC. FOR: WHITE, USAEC, ALO; LCDR&. HEDREICK, USAEC, WASH, D.C.; R.C. HAYDEN 9320, AND W.R. HOAGLAND 1544, SANDIA; F.DUNN, LOS ALAMOS; AN ALL STEEL 379 JET ENGINE CONTAINER 14FT-2IN IN LENGTH, 8FT-3 IN IN HEIGHT AND 5FT-2IN IN WIDTH IS BEING TAIR TRANSPORTED TO SAN JAVIER THIS AFTERNOON FOR USE AS A CONTAINER FOR PACKAGING WEAPON. GEN WILSON HAS INDICATED THAT IN ADDITION TO HIMSELF HE WISHES TO HAVE STU ASSELIN, AEC TEAM; XLT COL NEAL, DNS, AND TWO AF EOD PERSONNEL PRESENT WHEN THE UNIT IS RAISED TO ASSIST IN MAKING INSPECTIONB N RENDR SAFEGN AND FOR PACKAGING. GP-1.

BT

[REDACTED]

3-6-5184

rpms *Diseg*

OP-7,8,9
Called by Swann 0205

SE-10
TG-11,12
DV-13,14,15
AM-16

[Handwritten notes and signatures]

~~SECRET~~

NNNNPUA447WZB144

RR RUWPUJ

DE RUEPVZ 10 0811924

ZNY SSSSS

221 916Z

FM DASA

TO RUWPUJ/COMFLDCOM DASA SANDIAB NMEX

RUEPXG/USAEC GERMANTOWN MD

BT

~~REF ID: A607102 FROM OPWS~~

COMFLDCOM DASA FOR JACC.

THE FOLLOWING CTF 65 MESSAGE DTG 192008Z IS QUOTED FOR YOUR INFORMATION:

QUOTE

AIRCRAFT SALVOPS MED

SITREP EIGHT - THREE

A. NY 182006Z

1. OPERATIONS VICINITY CONTACT NR 261 CONTINUED. ATTEMPTED TO

P1

~~SECRET~~

3-6-5189
DASA

ADVICE	INFO
OP-789	SE-10 TG-11,12 DV-13,14,15 AM-16

deleted 24 Oct 66 F. J. ...

PAGE 2 RUEPVZ 10

POSITION MIZAR SLED IN VICINITY OF TARGET BUT WIND/WAVE ACTION PREVENTED ACCURATE POSITIONING. ALVIN SUBMERGED THIS PERIOD TO ASSIST IN CARRYING LIFT LINES FROM SLED TO TARGET. AFTER SEVEN HOURS ATTEMPT ABORTED AND ALVIN SURFACED AT 190430Z. VISIBILITY ON BOTTOM ALMOST ZERO. VECTORED BY MIZAR, ALVIN RE-VISITED TARGET AND DETERMINED IT HAD TOPPLED AND SLID APT TWENTY F, DOWN SLOPE. ALVIN IN 150 WELL DECK FOR 12 HR BATTERY CHARGE AND MAINTENANCE. 2. BEGINNING NOON WIND INCREASED TO 55 KTS WITH MOUNTING SEAS PREVENTING ACCURATE POSITIONING SHIPS AS WELL AS SUBMERSIBLE DEPTH AND SURFACE. SEA CONDITIONS NEXT TWO DAYS UNFAVORABLE. 3. REPAIRS FOR PERMITTED BY CONDITIONS. PLAN CHARTE INVOLVING 4. REPAIRS TO MANTON OR ANOTHER NEAR TARGET USING MIZAR AND 5. TROUBLE SHOOTING. 6. CABLE WILL CARRY RECOVERY DEVICES FOR DELIVERY TO MANTON OR ALVIN. SEA/WIND CONDITIONS CRITICAL. 7. AS SUGGESTED BY SWIFT ESTIMATES FOR SWIFT RECOVERY CONTACT WITH WEATHER, UNPRECEDENTED OPERATIONAL ENVIRONMENT, EXPERIMENTAL TECHNIQUES, PRECARIOUS TARGET POSITION, AND MAINTENANCE REQUIREMENTS FOR SUBMERSIBLES ARE FACTORS WHICH HAVE CONTRIBUTED TO CONFINING TO RETARD PROGRESS.

3-6-5189

3 RUEPWZ 10 [REDACTED]

• RIVAL (OBSS) SEARCHED 1000 BY 200 YARD AREA WITH SW CORNER
TED AT LAT 37-13,5N7, LONG 01-44,2W1 LONG AXIS 125T
D AREAS A21 AND A28) RESULTS TO BE EVALUATED.

• SALUTE COMMENCED SEARCH OPERATIONS WITH PC-3B
MARINE TO SEARCH FOR LOST OBSS. OBSS LOCATED LAT 37-14,1SN5,
01-43,47W5. POSITION MARKED WITH TBNBOUY. CUBMARINE
BOTTOM TIME 2 HRS AND 35 MIN. SALUTE (UQS-1) THEN COMMENCED
SEARCH IN GRID AREA 22, 23, AND 24. SEARCH IN PROGRESS.

• NOTABLE (UQS-1) SEARCHED 1000 BY 2000 YARD AREA
SW CORNER LOCATED AT LAT 37-13,3N JUN LONG 01-45,9W9
LONG AXIS 035T (GRID AREAS A3 AND A4), NEGATIVE RESULTS.

• TRINGA WITH U/V TV INVESTIGATED CONTACTS 72 AND 74.
NEGATIVE RESULTS. TRINGA HAD BOTTOM TIME 7 HRS. TRINGA DEPARTED
CARTAGENA AT 150843Z.

USNS GEORGE V.G. BOYCE HAS LOADED ON BOARD TOTAL 2523/2 DRUMS.

OPS 19-20 MARCH.

TG 65.2.

(1) SALUTE AT 200615Z COMMENCE OPERATIONS WITH PC-3B
(MARINE). SEARCH FOR OBSS.

3-6-5109

3

~~SECRET~~

NNNNPUA455VV WZBI 45

RR RUWPUJ

DE RUEPVZ 12 0811954

ZNY SSSS ~~EXCLUDED FROM AUTOMATIC~~

R 221852Z

FM DASA

ACTION	INFO
OP-7,89 1	SE-10 TG-11,12 DU-13,14,15 NM-16

TO RUWPUJ/COMFLDCOM DASA SANDIAB NMEX

RUEPKG/AEC GERMANTOWN

BT

~~SECRET~~ NOFORN YPUQPQ FROM OPWS

~~THIS DOCUMENT CONTAINS~~

COMFLDCOM FOR JACC

THE FOLLOWING MSG IS QUOTED FOR YOUR INFORMATION:

~~SECRET~~ NOFORN

AIRCRAFT SALVOPS MEDICAL

SITREQ EIGHT-FOUR

A. NY 192008Z

~~NO FORN DISSEMINATION~~
~~EXCEPT BY AUTHORITY~~
~~OF THE SECRETARY OF DEFENSE~~

1. ADVERSE WEATHER CONDITIONS PREVENTED RECOVERY OPERATIONS, SWELLS REMAINED HIGH (4-7/4 FT), BY LATE AFTERNOON EASTERLY WINDS 22-30 KTS WITH MOUNTING SEAS.

P1

~~SECRET~~

3-6-5196
DASA

FC/01660923

PAGE 2 RUEPWZ 12 S [REDACTED]

2. TG 65.2

A. RIVAL (OBSS) SEARCHED 1000 BY 2000 YARD AREA WITH SW CORNER

3. USNS LT GEORGE W. G. BOYCE HAS LOADED ON BOARD TOTAL 2664/8 DRUMS, ADVERSE WEATHER CONDITIONS PREVENTED ADDITIONAL LOADING OPERATIONS.

4. OPS 20-21 MARCH

A. TG 65.2

(1) SALUTE AT 210615Z COMMENCE OPERATIONS WITH PC-38 (SUBMARINE), SEARCH FOR OBSS.

(2) ABILITY ASSUME BARRIER PATROL AT 201900Z.

(3) NOTABLE WITH UQS-1 SEARCH 1000 BY 2000 YARD AREA WITH SW CORNER LOCATED AT LAT 37-1, 0N8, LONG NVSXTIFQM LONG AENY LQ 035T, (GRID AREA A31 AND A32),

(RL RIVAL WITH OBSS CONTINUE 1000 BY 2000 YARD AREA WITH SW CORNER LOCATED AT LAT 37-13, 15N0, LONG 01-41-4W0, LONG AXIS 035T (GRID AREAS B23 AND B24), UPON COMPLETION SEARCH 1000 BY 2000 YARD AREA WITH SW CORNER LOCATED AT LAT 37-14, 5N4, LONG 01-42, 25W4, LONG AXIS 125T, (GRID AREAS G17 AND G32),

(B) TG 65.3

SECRET
[REDACTED]

3-6-5196

P-2

[REDACTED]

PAGE 3 RUEPWZ 12 [REDACTED]

(1) EOD/MIZAR/HOIST/ALVIN CONTINUE OPERATIONS ON CONTACT NR 261.

(2) PETRAL WITH HARD HAT DIVERS RECOVER OBSS LOCATED AND BUOYED
AT LAT 37-14, 25N2, LONG 01-43, 5W3

(3) LUISEND RECOVER LOST ANCHOR, AND PREPARE FOR OPS VICINITY
CONTACT 261.

(C) WHEN WEATHER PERMITS MIZAR PREPARED LAY ANCHOR NEAR
CONTACT NR 261 USING TRANSPONDER ON ANCHOR CABLE AND MIZARS
UNDERWATER TRACKING EQUIP, ALSO ON ANCHOR CABLE WILL BE PINGER
FOR ALVIN DIRECTIONAL HOMING. ALVIN WILL BE USED TO RUN LIFT
LINES TO TARGET FROM ANCHOR WHEN LATTER POSITIONED." GP-1

BT

23

[REDACTED]

3-6-5196

[REDACTED]

[REDACTED]

ACTION

INFO

NNNNPUA268WZB255

25 MAR 66 23 07

SE-9
TG-10,11
DV-12,13,14
AM-15

RR RUWPUJ

OP-7,8

DE RUEPWZ 26 0842232

ZNY SSSSS

R 252228Z

[REDACTED]
EXCISE
RE [REDACTED]

FM DASA

TO RUWPUJ/COMFLDCOM DASA SANDIAB NMEX

RUEPXG/USAEC GERMANTOWN MD

BT

[REDACTED] 607112 FROM OPVS

REFERENCE: MSG FM CTF SIX FIVE DTG 0241932Z MAR 66 *NIR*

THE FOLLOWING MSG IS QUOTED FOR YOUR INFORMATION:

AIRCRAFT SALV OPS MED

SITREP EIGHT-EIGHT

A. NY 232000Z *NIR*

1. HIZAR, HOIST, FT SNELLING ON RECOVERY STATIONS. ALVIN DIVED A.M.

PROCEEDED TO TARGET AND ENGAGED ONE GRAPNEL ATTACHED TO RECOVERY LINE

IN SIX PARACHUTE HARNESS STRAPS, EACH STRAPE ATTACHED FOUR SHROUDS,

DIVE DURATION 7 HRS 32 MIN. ALVIN WILL CONDUCT 12 HR BATTERY CHARGE

AND WILL RESUME PLAN CHARLIE OPS FORENOON 25 AMR. GP-1

3-6-5620

BT

[REDACTED]

██████████
NNNNPUA281VZ B259

NOT

26 MAR 66 09 13

RR RUWBJ

DE RUEPWZ 28 0842329

ZNY SSSSS

R 252320Z

FM DASA

TO RUWPUJ/C-OMFLDCOM DASA SANDIAB NMEX

RUEPXG/USAEC GERMANTOWN MD

BT

ACTION	INFO
OP-7,8	SE-9
	TG-10,11
	DV-12,13,14
	AM-15

██████████ 607114 FROM OPWS

REFERENCE CTF SIX FIVE MSG DTG 250214Z MAR 66

THE FOLLOWING MSG IS QUOTED FOR YOUR INFORMATION:

██████████ ORN

ACFT SALV OPS MED (U)

SPECIAL SITREP 24-10

A. NY 242108Z SITREP 24-9 *NIR*

1. INSPECTION RECOVERED RIG REVEALS LINE FROM ANCHOR TO TARGET WAS CUT. PROBABLY AS RESULT HAVING FOULED ACROSS ANCHOR FLUKE. THIS FURTHER SUBSTANTIATED BY FACT SAME SIZE NYLON ABOVE ANCHOR

P/

██████████

3-6-5635

Signature

PAGE 2 RUEPWZ 28

THROUGHOUT.

2. BOTH RECOVERY RIG (POODLE) AND UNCHOR BROKE CLEAR OF BOTTOM NICELY. THERE WAS THEN SHORT PERIOD OF LIGHT STRAIN FOLLOWED BY MODERATE STRAIN FOR MATTER OF ONLY MINUTES BEFORE RADICAL REDUCTION IN STRAIN INDICATED LINE HAD PARTED AT SOME POINT.

3. UNABLE TO DETERMINE EXTENT OF TARGET MOVEMENT BUT IF IT MOVED IT WAS UP SLOPE. BELIEVE FINGERS STILL WITH CHUTE AND CAN RETURN TO TARGET USING PREVIOUS METHODS.

4. REGRET FIRST ATTEMPT TO LIFT UNSUCCESSFUL. AM RE-RIGGING TO USE SIMILAR METHOD BUT TAKING ADVANTAGE LESSONS LEARNED TO PREVENT FOULING OF LINES. ANTICIPATE ALVIN RE-CHARGED AND REDY MID-MORNING 25 MAR. MIZAR WILL BE STANDING BY TO PLANT NEW ANCHOR RIG AFTER TARGET RECONNECTED.

GP-

BT

3-6-5635

NK/OCAMA TINKER AFB OKLA

RUWTBTA/DAD ATB EGLIN AFB FLA

RUWMFNA/AEC ALO KIRTLAND AFB NMEX

RUWPUJ/SANDIA CORP SANDIA BASE NMEX

RUWPQL/LASL LOS ALAMOS NMEX

RUEPXG/AEC DMA WASHDC

INFO RUCVSK/SAC OTSL CARSWELL AFB TEX

RUFPBWT/USAFE CP

RUWPUJ/FC DASA SANDIA AFB NM

RUTQEN/CHIEF JUSMG MAAG SPAIN

RUTQEN/16ADV ON

BT

~~SECRET RESTRICTED DATA~~/9, OFORN/DC 12009 AQR 66. SUBJ: FINAL REPORT OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGT, AFFIS AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 42 822AD (DO, DM, DS); 68 & 97 BW (DCO, DCM, DS); SCIZ; MASS; SWN; OOYS; JUSMG FOR GEN DONOVAN; FC DASA FOR FCOP AND FCDV; AEC/ALO FOR MR. WHITE; SANDIA CORP, SANDIA BASE FOR 1540 AND 9320; LASL, LOS ALAMOS FOR DR. ROY; THIS CONSTITUTES ADDITION OR CORRECTED INFO TO REPTS FROM 16AF ADV ON SECRET

RESTRICTED DATA MSG C00010, 23 JAN 66, C00028, 24 JAN; C 00034
25 JAN 66; C00041, 26 JAN 66; C00054, 27 JAN 66; C00066, 28 JAN 66

P-2

~~SECRET~~ 1-6-5316 1-6-5532 1-6-5113 1-6-9021 4-6-3694

RESTRICTED DATA
PHONIC ENERGY NOT ISSUED

00134 FEB 66.

L REPORT NO. 12 (ADVON) OF NUCLEAR ACCIDENT
EC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS,
FOR GEN RYAN AND DO,DM, DOSD; 2, 8, 16AF,
Y,DS); 68 & 97BW (DCO, DCM,DS); SCIZ; MCASS;
FOR GEN DONOVEQ; FC DASA. THIS CONSTITUTES
RECTED INFO TO REPTS FROM 16AF ADVON SECRET/RD

- 1-6-5316 1-6-5532
1 66, C 0028, WWR JAN 66; C00034, 25 JAN 66;
- 1-6-5843 1-6-9029
5; C00054, 27 JAN 66; C00066, 28 JAN 66;
- 1-6-9189 1-6-9216 NR
5; 00085, 30 JAN WYV C00098, 31 JAN 66; C00111,

RESTRICTED DATA
PHONIC ENERGY NOT ISSUED

2-6-3308

70101660925

PAGE 2 RUTQBN 01A 8-2
 1 FEB 66; C00123, 2 FEB 66
 MENTS OF ATCHM'T 4, AFR

A. NO CHANGE.
 B. NO CHANGE. NUMBER 4 WE
 IAS NOT BEEN FOUND.

NO CHANGE.
 NO CHANGE.
 NO CHANGE.

EXTENSIVE SEARCH STILL CONT
 AP OSTALON AND SMSGT FRIEN
 ON AIR BASE FOR SUBSEQUEN
 EETINGS WITH SPANISH NEC F
 TRUCTION OF THE BURIAL PII
 D ON TOP AND BOTTOV AND 2
 SELF SUPPORTING CONCRETE
 ESS.

NEC PERSONNEL ARE CONDUCT
 CAUSE OF SEVERAL THOUSAN
 ON THE BEE HIVES AND HONEY

RESTRICTED DATA
 PHONIC ENERGY NOT ISSUED

~~SECRET~~

PAGE 2 RUTQBN DIA ~~SECRET~~

1 FEB 66; C00123, ²⁻⁶⁻³¹⁸⁵ 2 FEB 66; 3 FEB 66. THIS RPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR WQWUARM

A. NO CHANGE.

B. NO CHANGE. NUMBER 4 WEAPON, MK 28Y1, MOD 2, SERIAL NUMBER ²⁴⁵³⁰⁵ HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. INTENSIVE SEARCH STILL CONTINUES FOR WEAPON NUMBER 4.

MAJOR APOSTALON AND SMSGT FRIEND HAVE DEPARTED ACCIDENT SITE TO TORREJON AIR BASE FOR SUBSEQUENT TRANSPORT TO CONUS.

DAILY MEETINGS WITH SPANISH NEC PERSONNEL: BASIC AGREEMENT ON THE CONSTRUCTION OF THE BURIAL PIT HAS BEEN ACCOMPLISHED, IE 1 1/2 MM LEAD LINED ON TOP AND BOTTOM AND 2 1/2 MM LEAD LINED ON SIDES. ROOF WILL BE OF SELF SUPPORTING CONCRETE OF APPROXIMATELY 15 INCH THICKNESS.

THE SPANISH NEC PERSONNEL ARE CONDUCTING AN INVESTIGATION AND TESTS ON THE CAUSE OF SEVERAL THOUSAND BEES, TEST SHALL ALSO BE MADE ON THE BEE HIVES AND HONEY. FURTHER RESULTS WHEN AVAILABLE.

P-4

~~SECRET~~ ATOMIC ENERGY ACT 1954

2-6-3308

~~SECRET~~

PAGE 3 ROTEN STA [REDACTED] 1954

TODAY USAF PERSONNEL ARE REMOVING THE WATER FROM THE SCHOOL'S DRINKING WATER CISTERN, THE CISTERN SHALL BE CLEANED AND THE WATER SHALL BE REPLACED WITH POTABLE WATER.

SITE 2 INFO FOLLOWS: ARMY MINE-SWEE TEAM CONTINUING WORK, RESULTS OF THEIR CLEAN-UP OF SMALL DEBRIS IS NOTEWORTHY. DURING GRADING AND BULLDOZING OPERATIONS, WATERING FOR DUST CONTROL AND AIR SAMPLING ARE PERFORMED. NINE SAMPLES TAKEN AND RESULTS ARE ALL NEGATIVE.

THE 7,000 CPM LINE HAS BEEN ESTABLISHED AND MAPPED. CROP REMOVAL HAS COMMENCED.

TRUCKS EQUIPPED WITH LARGE ENCLOSED PLYWOOD BOXES HAVE BEGUN MOVING VEGETATION FROM CLEARED FIELDS TO LIME PIT. (AFTER CONSTRUCTION OF BURIAL PIT IS COMPLETED THIS VEGETATION WILL BE REMOVED FROM THE LIME PIT AND PLACED IN THE BURIAL PIT).

SITE 3 INFO FOLLOWS: CROP CLEARING OPERATION IS CONTINUING. PLOTS ARE BEING SELECTED FOR WATERING, PLOWING AND RECONTORING OPERATIONS.

VILLAGE: THE VILLAGE OF PALOMARES HAS BEEN REDESIGNATED SITE 5.

ALL REFERENCE TO PALOMARES HERE AFTER WILL BE TERMED SITE 5. USAF

AND NEC MONITORING OF SITE 5 IS COMPLETED.

2-6-3308

PAGE 4 RUTQB

~~SECRET~~

CAMP AREA: CAMP AREA AND EQUIPMENT MONITORING WAS ACCOMPLISHED WITH NEGATIVE RESULTS. SEA WATER SAMPLE RESULTS WERE NEGATIVE. CLAIMS: EMERGENCY CLAIMS PAID ON WW FEB 66, 2 CLAIMANTS WERE PAID \$466.67. TOTAL CLAIMANTS TO DATE 79, TOTAL AMOUNT CLAIMS PAID TO DATE \$311,184.84

G. NO CHANGE.

H. NO CHANGE

I. NO CHANGE.

J. NO CHANGE

K. SEE "F" ABOVE.

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE.

A.B. BRUZAKER, CAPTAIN, HQ 16AF, DM4E, EXT 3003, TORREJON AB, PAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

BT

~~SECRET~~

2-6-3308

NNNN

PRIORITY

NNNNPUA335VV TUA642PQA736

3 FEB 66 22

ACTION

INFO

PP RUWPUJ

DE RUWPQA 195C 0342030

ZNY SSSSS

P 032021Z

FM W F WHITE USAEC ALBUQUERQUE NMEX

TO RUTQBW16AF TORREJON AB SPAIN AITN ADVON PASS TO RC MAYDEW

/SERIES C/

INFO RUWVNA/DNS KIRTLAND AFB NMEX/SERIES D/

RUEPXG/LCDR G HEDRICK DMA USABC WASHDC/SERIES E/

RUWPUJ/LCOL CARL JOHNSON NACC FC/DASA SANDIAB/SERIES F/

RUMQJL/FRANK DUNN LASI ICB ALAMOS NMEX/SERIES G/

RUMQRS/W BARTON S MOORE SANDIA CORP ALBUQ NMEX/SERIES H/

ADC

BT

THIS DOCUMENT CONSISTS OF 7 PAGES

RE: ANALYSIS OF ACFT COLLISION NEAR VERA, SPAIN BY SANDIA CORP TEAMS (MESSAGE 5). REF: SRD MSG, 1 FEB 0900
CITE C-00108, W R BARTON, SANDIA CORP, 9320.

TO: RC MAYDEW, SANDIA CORP. FROM: W R BARTON AND W N. CAUDLE. THIS MESSAGE IN FIVE PARTS.

PART I: OUR ASSUMPTIONS, BASED ON YOUR MSG OF 1 FEB. (1) SECONDARY REMAINED INTACT DURING IMPACT. (2) THERE WAS NO HE DETONATION WITH SECONDARY IMPACT. (3) SLAG PILES ARE MORE THAN 20 YEARS OLD. (4) ANY SAND NOT ON THE BEACH IS DRY. (5) CALICHE IS LIGHTLY CEMENTED, LIKE MESA SOIL IN ALBUQUERQUE. (6) LOAN MEANS AN

OP-7,8,9

SE-10
TG-11,12
DV-13,14,15
AM-16

2563357
Discrep

PAGE TWO RUWPQA 195C [REDACTED]

IRRIGATED AND PLOWED FIELD. PART II: CRATER INFORMATION. IN SLAG AND TAILING PILES, NOSE-ON CRATER WILL BE LESS THAN 3 FEET ACROSS AND MAY BE INVISIBLE IF ON SLOPE OF PILE. LENGTHWISE CRATER WILL BE LESS THAN 8 FEET ACROSS.

CRATER ON SLAG OR TAILING PILE SHOULD BE DARKER THAN SURFACE OF PILE, AND YOU SHOULD SEE THROWOUT RAYS OF DARKER MATERIAL. THERE PROBABLY WILL BE NO READILY VISIBLE CRATER LIP. IN DRY SAND NOSE-ON CRATER SHOULD BE ABOUT 3 FEET ACROSS; LENGTHWISE CRATER ABOUT 8 FEET ACROSS. CRATER SLOPES WILL BE VERY FLAT, LESS THAN 20 DEGREES AND WILL PROBABLY HAVE NO READILY VISIBLE CRATER LIP OR THROWOUT RAYS. CRATER ON SANDY BEACH WILL SURELY BE DISTORTED AND LIKELY DESTROYED BY TIDES. CRATER IN CALICHE WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL PROBABLY BE 30 TO 40 DEGREES. FALLBACK AND THROWOUT IN AND AROUND CRATER SHOULD BE CHUNKY. YOU MAY BE ABLE TO SEE THGOWOUT RAYS AND PEGHAPS RADIATING CRACKS CLOSE TO CRATER. VRATER IN LOAM WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACCROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL BE ABOUT 20 TO 30 DEGREES.

IF LOAM IS MOIST, CRATER WILL BE SMALLER AND THE SLOPES STEEPER

P2 [REDACTED]

2-6-3357 [REDACTED]

~~SECRET~~

PRIORITY

~~SECRET~~

8 FEB 66 00 07

PUA978TUA3730TC523

ACTION

INFO

PP RUPUJ

DE RUTQCS 1134 0382135

ZNY SSSSS

IBT

SECRET RD SVC ZUI RWPQS ;3S 0381840 X ALSO TO RUPUJ X

AZDK RUTQBN 002A 0380931 P 070805Z

PP RWPQS RWPQJ

DE RUTQBN 002A 0380931

ZNY SSSSS

P 070805Z FEB 66

FM ISAF ADVON SPAIN

TO RUEPXG/AEC WASH DC

IRUWPGA/AEC ALQ ALBUQ NMEX

RUWPQS/SANDIA CORP ALBUQ NMEX

RUWPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NMEX

RUWMFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NME

RUWPQS/FC DASA SANDIA BASE ALBUQ NMEX

BT P1

OP-7,8

SE-9

FG-10,11

OV-12,13,14

AM-15

~~RESTRICTED DATA~~

~~THIS DOCUMENT CONTAINS RESTRICTED DATA~~

2-6-3670

WPNs DISCREP

~~SECRET~~

~~ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED~~

246566 E06370

[REDACTED]

~~SECRET~~ C-00171 FEB 66. FOR DIRECTOR OF MILITARY APPLICATION, AEC WASH DC. FOR W.R. HOAGLAND, AND ORG 9320 SANDIA CORP, ALBUQ, NMEX. FROM AEC NUCLEAR WEAPON SAFETY TEAM. REFERENCE STATUS OF SEARCH OPERATION AT PALOMARES, SPAIN, ACCIDENT. THE SYSTEMY ANAYLISIS TEAM HAS COMPLETED THE IDENTIFICATION OF MOST PROBABLE IMPACT AREAS FOR WEAPON NO. 4 OR PARTS THEREOF. GROUND SEARCH OPERATIONS ARE TO BE INTENSIFIED BEGINNING MONDAY IN ANCURCULAR AREA 5000 FT IN RADIUS WHOSE MID POINT IS 37 DSGREES 49.65 MINUTES NORTH, 1 DEGREE 49.9 MINUTES WEST. SEA SEARCH OPERATIONS ARE TO BE ALIGNED ALONG THE 300 DEGREE AVARAGE WIND CORRIDORSWITH EMPHAUS

PAGE 2 RUTQBN 002A ~~SECRET RESTRICTED DATA~~

AT A POINT DETERMINED BY THE SPANISH FISHERMAN'S TESTIMONY. CONTINUING ASSISTANCE BY THE NUCLEAR WEAPON SAFETY TEAM WILL CONSIST OF LIAISON, VERIFIVATION OF PROMISING IMPACT CRATERS, AND IDENTIFICATION OF WEAPON PARTSNWHEN FOUND.

GP-1
BT

P2

~~SECRET RESTRICTED DATA~~

2-6-3670

[REDACTED]

~~SECRET~~

~~SECRET~~ [REDACTED]

NNNNPUA438ZB816

OO RUWPUJ

ZNY SSSSS ZOV RUEPWZ

EUL138 EUN838CEC228

OO RUEPWZ

DE RUTQBN 008A 0401500

ZNY SSSSS

O 091400Z FEB 66 [REDACTED] DIR 5200.10

FM 16AF ADVON

9 FEB 66 18 36

IMMEDIATE

ACTION INFO

OP-7,8,9

SE-10

TG-11,12

DU-13,14,15

AM-16

Called Sgt Swann 1830

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAF

RUMFNA/DIR NUG SFTY KIRTLAND AFB NM

RUMHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCWAA/HQ 2 AF BARKSDALE AFB LA

RUETBH/HQ 8 AF WESTOVER AFB MASS

RUTQBNA/HQ 16 AF TORREJON AB SPAIN

RUCVHU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCVHU/97 BW BLYTHEVILLE AFB ARK

RUETFK/68 BW SEYMOUR JOHNSON AFB NC

RUEBBA/AFSC ANDREWS AFB MD

IMMEDIATE

THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION
NO. 12 OF 11 COPIES SERIES

2-6-3895

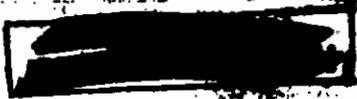
P1

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AVIATION BRANCH ACT 1954

THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION
NO. 62 OF 11 COPIES SERIES

~~SECRET~~



DSQ/AFLC WF

- RUWGN/SAAMA KELLY AFB TEX
- RUWNA/AFSWC KIRTLAND AFB NM
- RUWHHL/OAMA HILL AFB UTAH
- RUWGNK/OAMA TINKER AFB OKLA
- RUWTBIA/DA ATB EGLIN AFB FLA
- INFO RUFFBW/USAFE CP
- RUCVSK/SAC OTSL CARSWELL AFB TEX
- RUEPWZ/FC DASA SANDIA AFB NM
- RUTHBH/CHIEF JSMAG SPAIN

BT

~~SECRET~~ C-00193 FEB 66

SUBJ: SUPPLEMENTAL REPORT NO. 16 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASID (AE); CSAF AND AFIGO, AFIIIS, AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 15AF, 42, 822 AD (DO, DM, DS); 68 & OU BW (DCO, DCM, DS); SCIZ; MCASS; SWVN; JOYS; JSMAG FOR GEN DONOVAN; FC DASA. THIS CONSITITUES ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET/RD

- MSGS ^{NR} C0010, 23 JAN 66; ¹⁻⁶⁻⁵³⁹⁶ C0028, 24 JAN 66; ¹⁻⁶⁻⁵⁵³² C 0034, 25 JAN 66;
- ^{NR} C 3041, 26 JAN 66; ¹⁻⁶⁻⁵⁸⁴³ C 0054, 27 JAN 66; ¹⁻⁶⁻⁹⁵²⁹ C 0066, 28 JAN 66;
- ¹⁻⁶⁻⁹¹⁵¹ C 0080, 29 JAN 66; ¹⁻⁶⁻⁹¹⁸⁹ C 0085, 30 JAN 66; ¹⁻⁶⁻⁹²¹⁶ C 0098, 31 JAN 66;

P-2



2-6-3895

PAGE 2 RUIQBN 008

SECRET
2-6-3089
C 00111, 1 FEB 66; C 00123, 2 FEB WYV C 00134, 3 FEB 66;
2-6-3458
C 00149, 4 FEB 66; C 00160, 5 FEB 66; C 00174, 7 FEB 66; 9 FEB
66. THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR 127-4. GP-1

A. NO CHANGE

B. NO CHANGE. WEAPON NR. 4, MK28Y1, MOD 2, SERIAL NUMBER 45345, HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE SEARCH FOR WEAPON NR. 4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL TWO FIELDS IN SITE NR. (PLOT NR 12 AND PLOT NR. 16) HAVE BEEN PLOWED AND MONITORED. MONITORING RESULTS WERE ZERO CPM, THE SPANISH NEC HAVE ACCEPTED THESE RESULTS, AND THE LAND WILL BE RETURNED TO THE SPANISH FARMERS FOR USE.

A VERBAL AGREEMENT HAS BEEN MADE WITH SPANISH NEC PERSONNEL ON THE DISPOSITION OF CONTAMINATED VEGETATION IE VEGETATION WITH READINGS OF LESS THAN 400 CPM WILL BE MULCHED AND DEPOSITED IN THE DRY RIVER BED. VEGETATION WITH READINGS IN EXCESS OF 400 CPM WILL BE MULCHED AND DEPOSITED IN THE TEMPORARY BURIAL PIT AT SITE NR. 2.

SITE NR. 2 INFO TO FOLLOW: SOIL SCRAPING OPERATIONS ARE CONTINUING

R3

SECRET
2-6-3089

PAGE 3 RUTQBN 008A

~~SECRET~~

IN THE 7000 CPM AND OVER AREA OF SITE NR. 2. CONTINUAL WATERING OF THE AREA BEING SCRAPED IS PERFORMED AS A DUST CONTROL. DETAILED MONITORING IS PERFORMED DAILY TO ASSURE THE SPECIFIC LOCATION OF THE 7000 CPM AND ZERO CPM LINES.

SITE NR. 3 INFO TO FOLLOW: REMONITORING TO RECONFIRM THE PREVIOUSLY ESTABLISHED 7000 CPM LINE WAS PERFORMED ON 7 FEB. ADDITIONAL 7000 CPM AREA WAS IDENTIFIED DURING THIS OPERATION, THIS AREA IS FARM LAND LOCATED TOWARD THE RIVER BED FROM SITE NR. 3. THE ADDITIONAL AREA IS A STRIP OF LAND 3600 FEET LONG AND 100 FEET WIDE (APPROX 9 1/2 ACRES) THIS IS IN ADDITION TO THE PREVIOUS ESTIMATE OF 1 1/2 ACRES. VEGETATION MULCHING OF CLEARED CROPS HAS BEGUN.

ALL CONTAMINATED SOIL HAS BEEN REMOVED FROM PLOT NR. 1 (GROUND ZERO) OF SITE NR. 3. DURING 7 & 8 FEB 42 TRUCK LOADS (APPROX 126 CUBIC YARDS) WERE REMOVED TO THE TEMPORARY DISPOSAL PIT AT SITE NR. 2. THE GRAND TOTAL OF SOIL REMOVAL IS 76 TRUCK LOADS (APPROX 228 CUBIC YARDS) SITE NR. 5 INFO TO FOLLOW: DECONTAMINATION OF THE SCHOOL CISTERN IS COMPLETE, THE CISTERN HAS BEEN REFILLED WITH POTABLE WATER.

THE CRITERIA FOR THE DECONTAMINATION OF HOUSES WITHIN SITE C. 5 WAS PREVIOUSLY REPORTED AS THOSE WHICH HAVE READINGS OF 7000 CPM OR GREATER. THIS IS AN ERROR. HOUSE WASHING (DECONTAMINATION) IS PERFORM-

24

~~SECRET~~

2-6-3895

PAGE 4 RUTQBN 008A

~~SECRET~~

34

ED UPON SPECIFIC REQUEST OF THE SPANISH NEC MONITORS.

SITE NR. 6 INFO TO FOLLOW: DETAILED MONITORING IS CONTINUING. READINGS VARY FROM ZERO TO 5000 CPM. CONSERVATIVE ESTIMATE OF AVAILABLE DATA INDICATES THAT SITE NR. 6 IS AN EXTENSION OF THE SITE NR. 3 ZERO CPM LINE. MISCELLANEOUS: CAMP SITE MONITORING OF LIVING QUARTERS, HIGH TRAFFIC AREAS, DECONTAMINATION/SHOWER AND LAUNDRY CONTINUE TO GIVE NEGATIVE RESULTS. SAMPLES OF SEA WATER, SHOWER AND LAUNDRY EFFLUENT CONTINUE TO GIVE NEGATIVE RESULTS.

CLAIMS: EMERGENCY PAYMENTS THROUGH 8 FEHAVE BEEN MADE TO 106 CLAIMANTS FOR A TOTAL OF \$4489.68.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE

K. SEE "F" ABOVE.

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

G. A. B. BRUBAKER, CAPT, HQ 16AF, DMAE, EXT 3003, TORREJON AB, SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1.

BT

~~SECRET~~

~~RESTRICTED DATA~~
~~EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION~~

2-6-3895

P-5

6701000-3

NNNNVPUA538V WZB500

PP RUWPUJ

ZNY SSSSS ZO V RUEPWZ

Z CZ OEULI 97785 CED175

26

PP RUEPWZ

DE RUTQBN 13A 0621750

ZNY SSSSS

P 021632Z MAR 66

FM 16AF ADVON SPAIN

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUWMFNA/DIR NUCLEAR SAFETY KIRTLAND AFB NMEX

RUWHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/SAC

RUCVAA/2AF BARKSDALE AFB LA

RUEHB/8AF WESTOVER AFB MASS

RUTQBNA/16AF TORREJON AB SPAIN

RUCWHU/42AIR DIV BLYTHEVILLE AFB ARK

RUEJTSR/822AIRDIV TURNER AFB GA

RUCWHU/97BONWB BLYTHEVILLE AFB ARK

RUEJFK/68BONWB SEYMOUR JOHNSON AFB NC

RUEBBAA/AFSC

RUCDSQ/AFLC

RUWGNH/SAAMA KELLY AFB TEX

RUWMFNA/AFSWC KIRTLAND AFB NMEX

RUWHHL/OOAMA HILL AFB UTAH

ACTION	INFO
OR 7,8,9	SE-10 TG-11,12 DU-13,14,15 AM-16

RP [REDACTED]

3-6-3221

U

~~SECRET~~

G

NK/OAMA TINKER AFB IKLA

WTBTA/DAD (ATB) EGLIN AFB FLA

FO RUC VSK/SAC OTSL CARSWELL AFB TEX

PBW/USAFE

FPVZ/FS DASA SANDIA AFB NMEX

HEH/CHIEF JUSMAG SPAIN

~~SECRET~~ C-00379 FEB. 66.

SUBJECT: SUPPLEMENTAL REPORT NO. 21 (ADVON) OF NUCLEAR ACCIDENT (BROKEN
DOWN). SEC DEF FOR ASTD (AE) CSAF AND AFIBO, AFFIS. AFSS-AE, AFINS;
FOR GEN RYAN AND DO, DM. DOSD; 2, 8, 16AF, 42, 822 AD (DO, KM, DS);
& 97 BW (DCO, DCM, DSGA FSCIZ; MCASS; SWN; OQYS; JUSMAG FOR GEN
OVAN); FS DASA. THIS CONSTITUTES ADDITIONAL OR CORRECTED INFO

IS FROM 16AF ADVON SECRET RESTRICTED DATA MESGS C00010, 23 JAN 66;
6-5396 0028, 24 JAN 66; C 00034, 25 JAN 66; C 0004, 26 JAN 66; C 00054,
1-6-5532 NK 1-6-5843
JAN 66; C00066, 28 JAN 66; C 00080, 29 JAN 66; C 00081, 30 JAN
1-6-9029 1-6-9151 1-6-9152
C 00088, 31 JAN 66; C 00011, 1 FEB 66, 16, C 00125, 13 FEB 66;
2-6-3185

~~SECRET~~ 6-322

SECRET

PAGE 2 RUT QBN 13A

C ^{2.6-3308}00134, 3 FEB 66, C ^{2.6-3458}00149, 4 FEB 66; C ^{2.6-3570}00160, 5 FEB 66; C ^{2.6-3646}00174,
7 FEB 66; C ^{2.6-3895}00193, 9 FEB 66; C ^{2.6-4110}00209, 12 FEB 66; C ^{2.6-4679}00255, 16 FEB 66;
C ^{2.6-5712}00294, 20 FEB 66; C ^{2.6-5316}00323, 23 FEB 66, C ^{UK}0031, 27 FEB 66, 2 MAR 66.

THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR 127-4. GP-1

A. NO CHANGE

B. NO CHANGE, WEAPON #4, MK28Y1, MOD 2, SERIA

NUMBER 45345, HAS

NOT BEEN FOUND.

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. THE SEARCH FOR WEAPON #4, STILL CONTINUES. THE FOLLOWING ACTIVITIES WERE CONDUCTED BETWEEN 1800 HOURS 26 FEB 66 AND 1800 1 MARCH 66:

SITE #2 INFO TO FOLLOW: HOULING OF CANE AND VEGETATION FROM SITE #2 TO BURNING PIT BEGAN ON 28 FEB 66. AGREEMENT WAS REACHED WITH SPANISH AND USAF OFFICIALS THA ALL DIRT OVER 60,000 CPM WOULD BE REMOVED: AREAS QP,000 CPM TO 60,000 CPM WILL BE DUG UP, MIXED AND WATERED TO BRING DOWN C QUNT TO ACCEPTABLE LEVEL; BELOW 10,000NKPM SO IL WILL BE WASHED IF POSSIBLE. THIS PROGRAM IS PROGRESSING SATISFACTORY.

3-6-3221

SECRET

3 RULQBN 13A

[REDACTED]
#3 INFO TO FOLLOW: THE HAULING OF VEGETATION AND CANE IS COMPLETE WITH 2,815 DUMP TRUCK LOADS HAVING BEEN REMOVED. TOP SOIL IS BEING REPLACED IN THE 1.5 ACRES AREA WHERE COUNTS WERE OVER 1000 CPM AND SOIL AD BEEN REMOVED. SITE #3 IS VERTUALLY COMPLETED.

#5 INFO TO FOLLOW: THE HAULING OF VEGETATION AND CANE IS COMPLETE WITH 402 DUMP TRUCKS LOADS HAVING BEEN HAULED AND BURNED. SITE #5 IS CONSIDERED COMPLETED.

ADDITIONAL: CAMP MONITORING CONTINUES TO BE NEGATIVE WHENEVER CONTAMINATION IS FOUND IMMEDIATE ACTION IS INITIATED TO REMOVE IT, FOR EXAMPLE, THE FLOOR OF A BUS, THE WHEEL WELL OF A FIRE TRUCK.

PERSONNEL WORKING AT SITE #2 ARE TAKEN TO THE SITE #3 DECONTAMINATION AREA PRIOR TO RETURN TO CAMP. OUTGOING PERSONNEL MONITORING AND DECONTAMINATION CONTINUES TO BE SATISFACTORY. VEHICLE AND EQUIPMENT BEING PERMANENTLY RELEASED FROM THE CAMP ARE STRINGENTLY MONITORED. TENT WASHING FACILITIES HAVE BEEN COMPLETED AND ARE READY FOR USE. ONE TEST TENT HAS BEEN WASHED, MONITORED, DRIED AND PACKED SUCCESSFULLY. ALL TRANSPORTATION, VEHICLE AND AIR, LEAVING THE CAMP ARE MONITORED. WATERING FOR DUST CONTROL CONTINUES TO BE EFFECTIVE. AIR SAMPLING CONTINUES TO BE NEGATIVE.

4 [REDACTED] 3-6-3221
[REDACTED]

~~SECRET~~ [REDACTED]

PAGE 4 RUTQBN 13A [REDACTED]

CLAIMS: THRU 1200 HOURS, 1 MARCH 66

CLAIMS PAID: 17

AMOUNT PAID: \$3,866.00

EMERGENCY PAYMENTS: 178

AMOUN OF EMERGENCY PAYMENTS: \$ 13,659.00

G. N/A

H. N/A

I. N/A

J. N/A

K. SEE "F" ABOVE

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. COLONEL A. E. WHITE, 16 TH AIR FORCE (DE), EXT 3420. THIS
REPORT INITIATED FROM ACCIDENT SITE. GP-1 3-6-3221

BT

25

~~SECRET~~ [REDACTED]

[REDACTED]

NNNNPUA530W WZB674

8 MAR 66 02 02

PP RUWPUJ-

ZNY SSSSS ZO V RUEPWZ

EUL 472EUH035CEB970

PP RUEPWZ

DE RUTQBN 9A 0661845

ZNY SSSSS

P 071720Z MAR 66

FM 16AF AVON SPAIN

TO RUEKDA/SEC DF

RUEAHQ/CSAF

RUVNFA/IR NUCLEAR SAFETY KIRTLAND AFB NM

RUVHNF/DEP INSPSFTY NORTH AFB CALIF

RUCSC/SAC

RUCVAA/2AF BARKSDALE AFB LA

RUETHB/8AF WESTOVER AFB MASS

RUTQBN/16AF TORRAJON AB SPAIN

RUCWU/42AIRDIV BLYTHEVILLE AFB ARK

RUETSR/822AIRDIV TURNER AFB GA

RUCWU/97 BW BLYHEGILLE AFB ARK

RUETFK/68XW SEYNOUR JOHNSON AFB NC

RUEBAA/AFSC

RUCDSQ/AFLS

RUVGN/SAAMA KELLY AFB TEX

RUVNFA/AFSVC KIRTLAND AFB NM

RUVHL/00AMA HILL AFB UTAR

PRIORITY

ACTION | INFO

OP-7,8,9

*SE-10
TG-11,12
DV-13,14,15
AM-16*

~~EXCEEDED THE QUOTA~~
~~DO NOT~~

Serial 290 of 66 ECR 2
5 mth
~~THIS DOCUMENT CONTAINS INFORMATION~~
~~NO. 1 COPIES, SERIES~~

3-6-3725

~~SECRET~~



ULGNK/OCAMA TINKER AFB OKLA

RJWBTBTA/DAD ATB EGLIN AFB FLA

INFO RUCVSK/SAC OTSL CARSWEL AFB TEX

RUFPEW/USAF E

KRUEPVZ/FSSDASA SANDIA AFB N M

RUTHBH/CHIEF JUSMAG SPAIN

BT

~~RESTRICTED DATA~~/C-00423 MAR 66. SUBJECT SUPPLEMENTAL REPORT NO 22 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASTD (AEE); KAF AND AFIGO, AFFIS, AFSS-E, AFINS; SAC FOR GEN RYAN AND DO DM, DOSD; 2, 8, 16AF, 42, 82AD (DO, DM, DS); 68 & 9 BW (DCO, DCN, DS); KIZ; MCASS; SWN; OOYS; KUSMAG FOR GEN DONOVAN; FS ASA. THIS CONSTITUTES ADDITIONAL OR CORRECTED INFO TO REPTSSFRM

16AF ADVON SACRET ~~RESTRICTED DATA~~ MESSAGES C00010, 2- JAN 66; C 00028, 24 JAN; C 0034, 25 JAN 66; C 0004, 26 JAN 66; C 00054, 27 JAN 66; C 00066, 28 JAN 66; C 0000, 29 JAN 66; C 00085, 30 JAN 66, C 00098, -1 JAN 66; C 00111, 1 FEB 66, C 0123, 2 FEB 66; C 00134, - FB 66;

NJR

1-6-5396

1-6-5832

NJR

1-6-5893

1-6-9029

1-6-9189

1-6-9216

2-6-3089

2-6-3185

2-6-3308

P2

3-6-725

PAGE 2 RUIQBN 9

²⁻⁶⁻³⁴⁵⁸ C 00149, 4 FEB 66; ²⁻⁶⁻³⁸⁹⁵ C 00160 5 FEB 66; C PQURN U FEB 66; C 00193, ²⁻⁶⁻⁴⁷⁰ 6 FEB 66; ²⁻⁶⁻⁴⁶⁷⁹ C 00209, 12 FEB YV C 00255, 16 FEB 66; ²⁻⁶⁻⁵¹¹² C 0294, 20 FEB 66; ²⁻⁶⁻⁵⁷¹⁰ CS00-23, 2 FEB 66; ³⁻⁶⁻³²²¹ C 00351, 27 FEB 6; C 00379, 2 MAR 66; 8 MAR 66.

THIS REPT COVES RAQUIRMENTS OF ATCHMJT 4, AFR 11-4. GP-1

- A. NO CHANGE.
- B. NO CHANGE, WEAPON #4, MK 28YL, MOD 2, SSARIAL NUMBR 45345, HAS NOT BEEN FOUND.
- C. NO CHANGE.
- D. NO CHANGE.
- E. NO CHANGE.
- F. THE SEARCH FOR WAAPON 4, STILL CONTINUES. THE FOLLOWING ACTIVITIES WERE CONDUCTD BETWEEN 1800 HOURS, 1 MAR 1966 AND 1800 HOURS, 6 MARCH 1966:

SITE #2 INFO FOLLO: ALL CANE AND VEGEWTION HAVE BEEN REMOVED THE REMOVAL OF THE DIRT OVER 60,000 CPM HAS BEEN COMPLETE. PLOWING, MULCHING AND WATERING ARE CONTINUING SATISFACTORY.

SITE 3 INFO TO FOLL: THE DECONTAMINATION FACILITY AT SITE 3 IS SCHEDULED FOR REMOVAL MARCH 66. ALL SHOWER/DECONTANMINATION BASE CAMP SHOW/ DECONTAMINATION FACOLITY. FINAL SPOT CLEAN UP THIS SITE IS CONTINUING, ALL MAJOR WORK IS COMPLETED.

RESTRICTED DATA

3-6-3725

PAGE - RUTQBN 9A [REDACTED] [REDACTED] [REDACTED]

SITE #5 INFO TO FOLLOW: THIS SITE IS COMPLETED WITH THE EXCEPTION OF SPOT CLEANUP.

MISCELLANEOUS: CAMP MONITORING CONTINUES TO BE NEGATIVE WHENEVER CONTAMINATION IS LOCATED IMMEDIATE ACTION IS TAKEN. OUTGOING PERSONAL MONITORING, EQUIPMENT DECONTAMINATION/MONITORING, AND SHIPMENT IS SAISFACTORY. 53,5 TENT DECONTAMINATION AND PACKAGING IS CONTINUING. WATERING FOR DUST CONTROL IS EFFACITIVE. SUNDAY, 6 MARCH 66 WAS A STAND DOWN FULL TIME FORH THE FIRST "DAY OFF" SINCE THE ACCIDENT.

CLAIMS: HTHRU 1200 HOURS, 6 MARCH 1966.

CLAIMS PAID: 27\$

- AMOUNT PAID: \$17,409.00

A EMERGENCY PAYMENTS: 178

- U D AMOUNT OF AMERGENCYSPAYMFTS: \$13,659.00

TOTAL AMOUNTPAIDS \$31,202.00

G. N/A

H. N/A

AI. N/A

. N/A

K. SSEE "F" ABVE.

[REDACTED] 3-5 3725

[REDACTED]

PAGE 4 RUTQBN [REDACTED]

L. NOSCHANGE.

M. NO CHANGA.

-F. NO CHANGE

SCOLONEL SA. SESVHITA, 16TH AURSFORCE (DE; EXT 3420. THIS REPORT
INPIATED FROM ACCIDENT SITE. GP1

BT

P5

[REDACTED]

3-6-3725

[REDACTED]

~~SECRET~~

PRIORITY

NNNNVPUA. 597 WZES76

14 MAR 65 18 56

PP RUWPUJ

ZNY SSSSS DOW RUEPWZ

EULP76
EXCLUDED FROM AUTOMATIC
REGRADING; DOD DIR 5200.10
PP RUEPWZ DOES NOT APPLY

ACTION | DIV

*Called Sacramento
1859Z*
OP-7,8,9 SE-10
G-11,12
DU-13,14,15
AM-16

DE RUTQBN CA 2101535

ZNY SSSSS

P 141518Z

FM IS ADVON SF

TO RUEKDA/SEC DEF

RUEAHQ/CSAF

RUWMFNA/DIR NUCLEAR SAFETY KIRTLAND AFB N MEX

RUWHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/SAC

RUCVAA/2AF BARKSDALE AFB LA

RUEHNB/8AF WESTOVER AFB MASS

RUTQBN/16AF TORRE JON AB SF

RUCWHU/42AIR DIV ELYTHEVILLE AFB ARK

RUETSR/822AIR DIV TURNER AFB GA

~~THIS DOCUMENT CONTAINS...~~

RUCWHU/97BW ELYTHEVILLE AFB ARK

RUETFK/68BW SEYMOUR JOHNSON AFB NC

RUEBBAA/AFSC

RUCDSQ/AFLS

RUWGNH/SAAMA KELLY AFB TEX

RUWMFNA/AFSWC KIRTLAND AFB N MEX

RUWHHL/OOAMA HIL AFB UTAH

RUWTBTA/DAD ATB EGLIN AFB FLA

3-6-4398
upr hup

P-1 ~~SECRET~~

W

~~SECRET~~

[REDACTED]

G

NK/CAMA TINKER AFB OKLA

INFO RUCVSK/SAC OTSL CARSWELL AFB TEX

RUEPBW/USAFE

RUEPWZ/FS DASA SANDIA AFB N MEX

RUTHBH/CHIEF SUSMAAG SP-

BT

[REDACTED] A/C-00470 MAR 66. SUBJ: SUPPLEMENTAL
REPORT NO. 23 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF
FOR ASEM (AE); CSAF AND AFIGO, AFFIS AFSS-AE, AFINS; SAC FOR GEN
RYAN AND DO, DM, DOSD; 2, 8, 16AF, 42, 822AD (DO, DM, DS); 68 & 97BW
(DCO DM-DS); SCIZ; MCASS; SWN; OOYS; JUSMAAG FOR GEN DONOVAN; FS
DASA. THIS CONSTITUTES ADDITION OR CORRECTED INFO TO REPTS FROM

16AF ADVON SECRET RESTRICTED DATA MSG C00010, 23 JAN 66, C 00028, NR 1-6-9029
24 JAN; C 00034, 25 JAN 66; C00041, 25 JAN 66; C00054, 27 JAN 66; NR 1-6-5532
C00066, 28 JAN 66; C 00080, 29 JAN 66; C00085, 30 JAN 66; C00098, NR 1-6-5843
31 JAN 66; C 00111, 1 FEB 66; C 00123, 2 FEB 66; C 00154, 3 FEB 66; NR 1-6-9216
NR 2-6-3087, NR 2-6-3185, NR 2-6-3309

R2

~~SECRET~~

3-6-4398

PAGE THREE RUPQA 19C

HAN THESE VALUES. IF LAND HAS BEEN PLOWED AND IRRIGATED FOR MANY YEARS, YOU SHOULD HAVE HARD LAYER AT 2 TO 3 FEET. THIS LAYER COULD FORM A FLAT BOTTOM FOR A CRATER IN LOAM. THE SMALL NOSE-ON CRATER IN LOAM COULD BE DESTROYED OR FILLED IN BY CARELESS DEFOLIATION OF CROPS. PART III: SOIL PENETRATION UNLESS UNIT HIT MUCK, IT WILL NOT BE DEEPER THAN 20 FEET FOR NOSE-ON IMPACT OR 5 FEET FOR LENGTHWISE IMPACT FOR THE AFORE-MENTIONED FOUR SOI

S. IF UNIT HI BEACH SAND AREA, IT WILL NOT BE DEEPER THAN 13 FEET FOR NOSE-ON OR 5 FEET IF LENGTHWISE, BUT CRATER PROBABLY WASHED IN. IF UNIT HIT ON OCEAN SIDE OF BEACH, UNIT COULD HAVE PENETRATED 30 TO 40 FEET. IF UNIT BROKE AT IMPACT, PENETRATIONS OF PIECES WILL BE LESS THAN THOSE DEPTHS JUST GIVEN AND PROBABLY WILL BE SUBSTANTIALLY LESS. CANNOT MAKE CLOSER ESTIMATES WITHOUT BETTER PHYSICAL DESCRIPTION OF SOILS. IF BETTER PENETRATION ESTIMATE REQUIRED, YOU SHOULD OBTAIN SERVICES OF LOCAL SOIL ENGINEER AND HAVE HIM FURNISH DATA AS TO BLOW COUNT (STANDARD PENETRATION TEST), COMPRESSIVE STRENGTH, AND UNIFIED CLASSIFICATION. PART IV: SOME RANDOM QUESTIONS AND THOUGHTS FROM MC NEILL. COULD UNIT HAVE GONE DOWN MINESHAFT QUERY ARE THERE CAVES, SINKHOLES, OR UNDERGROUND CAVERNS IN THE AREA QUERY HAS DETAILED STEREO AIR PHOTO COVERAGE BEEN MADE QUERY

P3

2-6-3357

PAGE FOUR 20 WFOA 195 C [REDACTED] 64

NEW SUBJECT: ACCORDING TO OUR RECORDS ON 17 TESTS COMPLETED IN THE DEVELOPMENT PROGRAM OF THIS WEAPON FROM FEBRUARY 1961 TO JUNE 1962, THE AVERAGE CDS WAS 2538 SQ. FT. WEIGHTING THE TEST RESULTS, A 2400 SQ. FT. CDS WAS USED IN DETERMINING THE FINAL BALLISTIC DISPERSION NUMBERS ON THIS WEAPON. THIS WAS ISSUED IN A LETTER TO EGLIN IN SEPT 1962. A REPORT (SC-DR-64-1-66) PUBLISHED IN OCT 1964 A

SO INCLUDES THIS INFO. WE WOU

D LIKE TO KNOW WHAT

THE CDS OF 1600 WAS BASED ON. OUR ESTIMATES SHOW THAT 1600 IS A GOOD NUMBER FOR A 64-FOOT RIBBON CHUTE.

TRAJECTORY STUDIES USING INFO THAT WAS TRANSMITTED EARLIER DO NOT CONFIRM NEW COLLISION POINT. A CDS OF 13.8 SQ. FT. WAS USED FOR THE TUMBLING WEAPON. WE ARE STILL USING A GROUND TRACK OF 256 DEG. WITH YOUR LATEST INFO, WHAT IS YOUR OPINION OF THE PILOT'S QUOTED 237 DEG. GROUND TRACK QUERY WE ARE MAKING NEW TRAJECTORY STUDIES VARYING VEHICLE PARAMETERS TO TRY AND MATCH YOUR NEW COLLISION POINT WITH UNITS 1, 2, AND 3 IMPACT POINTS.

WE HOPE TO GET ADDITIONAL INFO ON TRAJECTORY RESULTS AND INFO CONCERNING STRUCTURAL FAILURE OF TAIL ASSEMBLY TO YOU LATER TODAY. THE SIZE OF SECONDARY IS 12.6 IN. DIAMETER, 26.5 IN. LONG, AND WEIGHS 710 POUNDS.

PART V: EXAMINATION OF TWO RESERVOIRS RETURNED TO LASL FOR SERIAL NUMBER VERIFICATION DEFINITELY ESTABLISHES THAT THEY ARE FROM WEAPONS NO. 2 AND NO. 3. END REF WDS:PHS (S-149) GP-1

BT 84 [REDACTED] LAIG [REDACTED] 2-6-3357

~~SECRET~~

NNNNPVA 455 TUA794QTA698

OO RUWPUJ

4 FEB 66 13 30

IMMEDIATE

DE RUTQBN 06A 0351130

ZNY SSSSS

O 041030Z FEB 66

FM 16AF ADVON SPAIN

ACTION	INFO
OP-78	SE-9
	TG-10, 11
	DV-12, 13, 14
	AM-15

TO RUWPQS/SANDIA CORP ALBUQ NMEX

INFO RUWPQA/USAEC ALBUQ NMEX

RUWMFNA/ONS KIRTLAND AFB NMEX

RUWEPXG/USAEC WASH DC

RUWPUJ/FC DASA SANDIA BASE ABLUQ NMEX

RUWPQL/LOS ALAMOS NMEX

RUWBTB/DAD ATB EGLIN AFB FLA

BT

~~SECRET~~

11 15 1400 11 14

~~SECRET~~ RESTRICTED DATA C-00145/ 137 66. FOR W.R. BARTON 9323

AND S.A. MOORE 1540, SANDIA CORP. FOR Z.F. WHITE, USAEC. FOR

LCDR G. HEDRICK, IDMA, USAEC, WASH D.C. FOR LCDR CARL JOHNSON,

JNAIC SANDIA. FOR FRANK DUNN LASL, LOS ALAMOS. FOR LTJOL WOOD, DAD

(ATB), EGLIN AFB, FLA. FROM R.C. MAYDEW AND R. REED. CRATERING

INFORMATION USEFUL. MANY ABANDONED LEAD MINE SHAFTS IN AREA.

INTENSIVE GROUND AND AIR SEARCH HAS BEEN MADE. NEW SUBJECT.

CDS OF TQPP BASED ON DOWNTIME MEASUREMENTS OF 64 FEET SOLID CONOPY

SYSTEM IN VERTICAL TRAJECTORY AFTER SYSTEM HAS DECELERATED NOT

AVERAGE CDS DURING TRAJECTORY ROTATION PERIOD. NEW SUBJECT IN GROUND

P-1

~~SECRET~~

2-6-3424
WPN'S O&P

PAGE TWO RIJQBN BPY

~~SECRET~~

TRACK OF 256 DEGREES AND TRUE HEADING OF 262 DEGREES SUBSTANTIATED SEVERAL WAYS. ANALYSIS OF AIRCRAFT COLLISION INDICATES BOMBS PROBABLY LEFT AIRCRAFT ABOUT 4 TO 76 SECONDS AFTER INITIAL COLLISION AND AIRCRAFT HAD DECELERATED APPROXIMATELY 200 TO 400 FT/EC WHEN BOMBS LEFT AIRCRAFT. COLLISION POINT ABOUT ONE-HALF MILE TO A MILE UPTRACK FROM BOMB RELEASE POINT FORWARDED TO YOU. GP-1.

BT

P-2

~~SECRET~~

2-6-3424

NNNN

~~SECRET~~

IMMEDIATE

~~SECRET~~

N PUA5 19VV WZB656
CO RUPUJ
ZNY SSSSS ZOV RUEFWZ
EEL 516 EUGS 12CEF646
OO RUEFWZ
DE RUTQBY 21A 039 1430
ZNY SSSSS
O 041400Z FEB 66
FM 16TH AF ADVOP

ACTION	INFO
OR 7,89	SE-10
Called Get down 2047Z	TG-14, 12
	PU-13, 14
	AB-16

TO RUEKDA/SECRETARY OF DEFENSE
 RUEAHQ/C SAF USAF
 RLWAFNA/DIR NUC SFTY KIRLAND AFB N M
 RLWHNF/DEP INSP SFTY NORTON AFB CALIF
 RUCSC/HQ SAC OFFUTT AFB NEB
 RUCVAA/HQ 2 AF BARKSDALE AFB LA
 RUEBH/HQ 8 AF WESTOVER AFB MASS
 RUTQENA/HQ 16 AF TORREJON AB SPAIN
 RUCVHU/42ND AIR DIV BLYTHEVILL AFB ARK
 RUETSR/52ND AIR DIV TURNER AFB GA
 RUCVHU/97BW BLYTHEVILLE AFB ARK
 RUETFK/68 BW SEYMOUR JOHNSON AFB N C

IMMEDIATE

2-6-3458

P-1

~~SECRET~~

~~SECRET~~

~~SECRET~~ [REDACTED]

RUEBAA/AFSC ANDREWS AFB MD
RUCDSG/AFLC WPAFB
RUWGNH/SAAMA KELLY AFB TEXAS
RUVVFA/AFSWN KIRTLAND AFB N
RUWHHL/OCAMA HILL AFB UTAH
RUWGNK/OCAMA TINKER AFB OKLA
XRUMTBIA/DAD (ATB) EGLIN AFB FLA
INFO RUEPFWL/USAFE CP
RUCVSK/SAC OTSL CARSWELL AFB TEXAS
RUEPWZ/FM DASA SANDIA BASE NM
RUTHBH/CHIEF JUS MAG SPAIN
XBT

[REDACTED] C-00149 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NO. 13 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFINS;
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DUSD; 2.8.16AF,
42. 822 AD (DO, DM, DS); 63 & 97 BW (DCO, DCM, DS); SCIZ; MCASS;
SWN; OOS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES
ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRETARD

NR
MSGs C0010, 23 JAN 66; C0028, 24 JAN 66; C0034, 25 JAN 66;
C0034, 26 JAN 66; C0054, 27 JAN 66; C0066, 28 JAN 66;
C0080, 29 JAN 66; VC0085, 30 JAN 66; C0098, 31 JAN 66; C0011,
2-6-3458

P2

~~SECRET~~ [REDACTED]

PA

[REDACTED]

[REDACTED] [REDACTED]
PAGE 2 RUTQBN DIA S E C R E T

1 FEB 66; C00123, 2 FEB 66; C00134, 3 FEB 66; 4 FEB 66.

THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR 127-4.

A. NO CHANGE

B. NO CHANGE. NUMBER 4 WEAPON, MK28Y1, MOD2, SERIEL NUMBER 555
HAS NOT BEEN FOUND.

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

F. THE INTENSIVE SEARCH FOR WEAPON NO. 4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL:

THE FOLLOWING PROPOSALS WERE MADE TO THE SPANISH:

1. PROCEDURE FOR BOTH PARTIES TO RELEASE ANY LAND AREA THAT
HAS BEEN DECONTAMINATED.

2. THE DISPOSITION OF AND NECESSARY ACTIONS REQUIRED FOR THE
HANDLING OF SPANISH PERSONNEL THAT HAVE OR IMAGINE ILLNESSES THAT
COULD BE ATTRIBUTED TO THE AIRCRAFT ACCIDENT.

D. THE DISPOSITION ON AND NECESSARY ACTIONS REQUIRED FOR THE
HANDLING OF LIVESTOCK (PIGS, CATTLE, SHEEP ETC) AND INSECTS (BEES
ETC) THAT HAVE OR MAY HAVE ILLNESSES AND OR DEATHS THAT MAY BE AT-
RIBUTED TO THE AIRCRAFT ACCIDENT.

2-6-345

PAGE 3 RUTQBN 01A [REDACTED]

THE FORMALIZATION OF SIGNING OF AGREEMENTS NECESSARY FOR CONCLUDING THE ABOVE MENTIONED PROPOSALS IS NOT BEING PROCESSED.

TODAY THE SCHOOLS DRINKING WATER CISERN IS BEING RECLEANED AND REFILLED WITH POTABLE WATER.

SITE IDENTIFICATION DATA: FOR CLARIFICATION PURPOSES THE FOLLOWING IDENTIFICATION SYSTEM AS BEEN ESTABLISHED AND ACCEPTED BY USAF AND SPANISH DECONTAMINATION TEAMS.

SITE 1 - THE AREA WHERE THE FIRST WEAPON WAS LOCATED.

SIE 2 - THE AREA WEST OF THE PUELO OF PALORMARES WHERE THE SECOND WEAPON WAS LOCATED. THIS AREA HAS BEEN SUBDIVIDED INTO TWENTY TWO PLOTS.

SITE 3 - THE AREA EAST OF THE PUELO OF PALORMARES WHERE THE THIRD WEAPON WAS LOCATED ON THE EDGE OF THE PUELO. THIS AREA HAS BEEN SUBDIVIDED INTO TWENTY FIVE PLOTS.

SITE 4 - THIS WILL BE THE AREA OF WEAPON NUMBER FOUR WHEN LOCATED.

SITE 5 - THIS IS THE PUELO OF PALORMARES LOCATED BETWEEN AND CONNECTING SITE 2 AND SITE 3. THIS AREA IS SUBDIVIDED INTO FOUR PLOTS. SITE 6 - THIS AREA IS LOCATED EAST OF THE RIVER BED WHERE THE B-52 TAIL SECTION WAS LOCATED. BASICALLY THE PUELO OF

2-6-3458

P-4

PAGE 4 RUTQBN 001A [REDACTED]

KVILLARICOS AND ADJACENT LAND AROUND THE PUEBLO OF VILLARICOS. NO SPECIFIC PLOTS HAVE YET BEEN DESIGNATED WITHIN THIS SITE.

SITE 2 INFO FOLLOWS: ARMY MINE-SWEEP TEAM CONTINUING OPERATIONS AT SITE 2, THEY HAVE APPROXIMATELY TWO MORE DAYS WORK LEFT IN THIS AREA. BULLDOZING AND WATERING OPERATIONS ARE CONTINUING. 10 AIR SAMPLES TAKEN DURING OPERATIONS PRODUCED NEGATIVE RESULTS.

SITE 3 INFO FOLLOWS: CROP CLEARING HAS BEEN COMPLETED. MONITORING IS BEING ACCOMPLISHED AS NECESSARY TO CONFIRM THE EASTERLY ZERO VOM LINE, A DECONTAMINATION SHOWER IS NOW IN PLACE. SOIL SCRAPING OPERATIONS HAS BEGAN IN PLOT 1. PLOWING OPERATIONS HAVE BEGUN IN PLOT 15.

SITE 6 INFO FOLLOWS: PRELIMINARY MONITORING WAS ACCOMPLISHED ON THE SUSPECTED BEE HIVES. SAMPLES OF THE BEES, HIVES AND HONEY ARE IN PROCESS OF SHIPMENT TO WPAFB FOR TEST. MONITORING RESULTS WERE NEGATIVE.

CAMP SITE AREA: MONITORING RESULTS WERE NEGATIVE. SEA WATER SAMPLES WERE NEGATIVE. MONITORING OF THE LAUNDRY AND SHOWER/DECONTAMINATION EFFLUENT PROVED NEGATIVE. 38 URINE SAMPLES HAVE BEEN COLLECTED AND ARE BEING SHIPPED TO LABORATORY AT WPAFB, OHIO.

CLAIMS: ON 3 FEB 66 EMERGENCY PAYMENT WERE MADE TO 6 CLAIMANTS

P-5

[REDACTED] 2-6-3458

PAGE 5 RUTQBN 01 S [REDACTED]

FOR AN AMOUNT OF 337.50. THE TOTAL NUMBER OF PAYMENTS TO DATE IS 85 AND THE TOTAL AMOUNT OF PAYMENTS IS \$425.34.

G. NO CHANGE

H. NO CHANGE

I. NO CHANGE

J. NO CHANGE

K. SEE "F" ABOVE

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. A.B. BRUBAKER, CAPT, HQ 16AF, DM4E, EXT 3003, TORREJON AB, SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1.

BT

P-6

[REDACTED]

[REDACTED]

2-6-3458

5210110723

SECRET
NNNNPUA615TUA950PQB723

PP RUWPUJ

DE RUWPQA 204C 2360010

ZNY SSSSS

P 042339Z

FM USAEC WALTER F WHITE ALBUQUERQUE NMEX

TO RUTQB N16 AF TORREJON SPA ON ATTN ADV ON PLS PASS TO RC MAYDEW

/SERIES C/

INFO RUWMFN/DNS KIRTLAND AFB ALBUQUERQUE NMEX /SERIES D/

RUEXPXG/DMA USAEC WASHDC LC DR G HEDRICK /SERIES E/ REC

RUWPUJ/FC/DASA ATTN UNACC ATTN LC OL CARL JOHNSON /SERIES F/

RUWPQL/LASL NMEX ATTN FRANK DUNN /SERIES G/

RUWPQS/SANDIA CORP ALBUQUERQUE NMEX V BARTON /SERIES H/

SANDIA CORP ALBUQUERQUE NMEX S MOORE /SERIES H/

AEC

BT

PRIORITY

ACTION	INFO
OP 7,8,9	SE 11, 12 TG 11, 12 OV 13, 14, 15 AM 16

~~SECRET~~ RESULT OF RE: ANALYSIS OF AIRCRAFT COLLISION NEAR VERA, SPAIN BY SANDIA CORP TEAMS (MESSAGE 6)

VISUAL EXAMINATION OF RING FORGING AND TAIL-PLATE ASSEMBLY AND COMPARISON WITH FAILURE LOADS FOR THE FAILURES INDICATED LEADS TO SPECULATION OF PROBABLE SEQUENCE OF EVENTS AS FOLLOWS:

1. ASSUME HARD BLOW Laterally ON AFTERBODY SUFFICIENT TO SEVERELY BUCKLE BOTH INNER AND OUTER CANS.
2. THIS CAUSE GROSS RIVET FAILURE STARTING ON STRUCK SIDE OF CANS AND PROGRESSING CIRCUMFERENTIALLY A LARGE PERCENTAGE OF THE CIRCUMFERENCE BOTH DIRECTIONS FROM IMPACTED SIDE.
3. SUBSEQUENT COMBINED AFT AND RADIAL BLOW ON RING FORGING AND TAIL PLATE ASSEMBLY EVIDENCED BY ENLARGED AREAS COMPLETED THE FAILURE.

~~SECRET~~ REF ID: A66557

PAGE TWO RUWFOA 204C [REDACTED]

4. DAMAGE WORKS ON TAIL PLATE AND PATTERN OF RIVET SHEAR AND BENDING FAILURES SUPPORT SUCH A THEORY.
5. FAILURES OF FINS COULD HAVE OCCURRED BEFORE, DURING, OR AFTER THE ABOVE SEQUENCE WITH LITTLE SIGNIFICANCE TO OUTCOME.
6. CONCLUDE FIRST EFFECT ABOVE OCCURRED BEFORE LEAVING BOMB BAY.
- 7 CONCLUDE SECOND EFFECT OCCURRED BEFORE OR DURING BOMB EXIT FROM BOMB BAY.
8. CONCLUDE THAT PILOT CHUTE WOULD THEREFORE BE EMPLOYED AS ASSEMBLY ENTERED AIRSTREAM BUT MAY HAVE SUFFERED DAMAGE FROM SHARP METAL EDGES.
9. DO NOT BELIEVE THAT FAILURE OCCURRED DUE TO TRANSLATIONAL OR ROTATIONAL ACCELERATIONS OF BOMB.
10. LONGITUDINAL FAILURE LOAD FOR RIVET SHEAR AS INDICATED IS 82 THOUSAND POUNDS.

11. LONGITUDINAL FAILURE LOAD FOR SCREW HEADS PULLING THROUGH TAIL PLATE IS ONLY 22 THOUSAND POUNDS.

12 THESE LOADS SUPPORT HYPOTHESIS OUTLINED ABOVE.

NEW SUBJECT: TERMINAL VELOCITY ESTIMATE FOR 4-FOOT GUIDE SURFACE CHUTE WITH 16-FOOT CHUTE BAG IS 32 FPS AT SEA LEVEL AND 37 FPS AT 10,000 FEET.

16-FOOT PARACHUTE WITH 64-FOOT CHUTE BAG IS 24 FPS AT SEA LEVEL AND 28 FPS AT 10,000 FEET.

ASSUMING UNIT 4 FREE FELL FOR 5, 10 AND 15 SEC, BASED ON LATEST RELEASE POINT, THEN IF THE SECONDARY WAS EJECTED IN SOME MANNER. THE IMPACT POINTS WOULD BE AZ 254 DEGREES 15° RANGE 18,850, AZ 254 DEGREES 15° RANGE 19,020, AND AZ 254 DEGREES 30° RANGE 19,210 RESPECTIVELY. REFERENCED TO RELEASE POINT AT ONE DEGREE

2-6-3513

PAGE THREE RUWPQA 204C [REDACTED]

47.8 MINUTES AND 37 DEGREES 15.4 MINUTES. WILL ASSUME THIS AS NEW REFERENCE FOR ALL FUTURE IMPACT LOCATIONS. ASSUMING UNIT 4 TUMBLED (CDS EQUAL 13.8) TO 15,000, 20,000, AND 25,000 AND THEN EXPELLED THE SECONDARY, ITS IMPACT POINTS WOULD BE AZ 240 DEGREES 30° RANGE 9,540, AZ 242 DEGREES 45° RANGE 10,430 AND AZ 246 DEGREES 30° RANGE 12,110 RESPECTIVELY.

WE HAVE EXPERIENCED COMPUTER DIFFICULTIES IN GETTING THE 64-FOOT CHUTE, WITH THE 1500 AND 500 POUND WEIGHTS, TO RUN. WILL FORWARD THIS INFORMATION AS SOON AS DIFFICULTIES ARE OVERCOME.

STILL CANNOT CONCUR WITH 1600 SQ. FT. CDS ON 64-FOOT CHUTE; HOWEVER, WILL RUN TRAJECTORIES FOR YOU USING THIS FIGURE. RESULTS WILL FOLLOW SOON.

IMPACT POINT FOR UNIT 1 ASSUMING OPEN 16-FOOT CHUTE (CDS 107) ARE AZ 122 DEGREES 30° RANGE 10,470 FEET. IMPACT POINT FOR UNIT 3 ASSUMING DAMAGED 16-FOOT CHUTE (CDS 53) IS AZ 143 DEGREES 30° RANGE 5970 FEET AND USING AC D S EQUAL 40 SQ. FT., THE AZ IS 162 DEGREES 45° RANGE 4850. THIS LOOKS BETTER. THE IMPACT POINT FOR UNIT 2 ASSUMING A TUMBLING VEHICLE (CDS 13.8) IS AZ 236 DEGREES 45° RANGE 8710 FEET.

NOW RUNNING TRAJECTORIES FOR DELAYED OPENING ON CHUTES OF UNITS 1 AND 3 AND INCREASED CDS FOR TUMBLING UNIT 2 IN HOPES TO BETTER CONFIRM NEW RELEASE POINT. WILL FORWARD RESULTS. A GROUND TRACK OF 256 DEGREES WAS USED FOR ALL TRAJECTORIES.

2-6-3513

A-3

PAGE FOUR RIWPQA 204C [REDACTED]

NEW SUBJECT: RO R C MAYDEV. DO YOU HAVE AN ESTIMATE OF WHEN YOU WILL RETURN TO ALBUQUERQUE?

NEW SUBJECT: MCNEILL TO MAYDEV. HAVE UNVERIFIED INFORMATION THAT A SPANISH GEOLOGICAL TEAM IS PRESENTLY STUDYING YOUR PROVINCE. TEAM REPORTED TO BE BASED IN ALMERIA. SUGGEST YOU CONTACT THEM REGARDING POSSIBILITY OF NEAR SURFACE MINESHAFTS AND POSSIBLE COVERED MINES. YOU SHOULD ALSO INQUIRE AS TO POSSIBLE DEEP GROUNDWATER GRADIENTS AND POSSIBLE QUICK CONDITIONS IN THE DRY WASH, AND FOR POSSIBLE SOFT SUBSOIL CONDITIONS A MILE OR SO SOUTH OF THE WASH. AGNEW FAMILIAR WITH AREA AND HE SUGGESTS THOROUGH SEARCH TO INCLUDE NOT ONLY MINE SHAFTS AND SUBSURFACE MINE AREAS, BUT ALSO ANY ABANDONED FARM OR INDUSTRIAL BUILDINGS OR OTHER SIMILAR GROUND COVER WHICH MIGHT CONCEIVABLY CONCEAL WEAPON LYING ON SURFACE. END REF WDS:RHS (S-155)

BT
[REDACTED]

33

~~SECRET~~ ~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954

~~SECRET~~ - 00134 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NO. 12 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS,
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF,
42, WIWW AD (DO, DM, DS); 68 & 97BW (DCO, DCM, DS); SCIZ; MCASS;
SWVN; OOYS; JUSMAG FOR GEN DONOVEQ; FC DASA. THIS CONSTITUTES
ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET/RD

1-6-9103
MSGs C0010, 23 JAN 66, C 0028, WWR JAN 66; C00034, 25 JAN 66;
NR
C 00041, 26 JAN 66; C00054, 27 JAN 66; C00066, 28 JAN 66;
1-6-9151
C 00080, 29 JAN 66; 00085, 30 JAN WYV C00098, 31 JAN 66; C00111, NR
1-6-5396
1-6-5532
1-6-5843
1-6-9029
1-6-9189
1-6-9216

1-3 ~~SECRET~~ ~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954

2-6-3308

~~SECRET~~ ~~RESTRICTED DATA~~
ATOMIC ENERGY ACT 1954

~~SECRET~~

PAGE 2 RUTQBN 01A 8 ~~SECRET~~

1 FEB 66; C00123, 2 FEB 66; 3 FEB 66. THIS RPT COVERS REQUIRE-
MENTS OF AICM'T 4, AFR WQWUARM

A. NO CHANGE.

B. NO CHANGE. NUMBER 4 WEAPON, MK 28Y1, MOD 2, SERIAL NUMBER
HAS NOT BEEN FOUND.

245305

C. NO CHANGE.

D. NO CHANGE

E. NO CHANGE.

F. INTENSIVE SEARCH STILL CONTINUES FOR WEAPON NUMBER 4.

MAJOR APOSTALON AND SMSGT FRIEND HAVE DEPARTED ACCIDENT SITE TO
TORREJON AIR BASE FOR SUBSEQUENT TRANSPORT TO CQUS.

DAILY MEETINGS WITH SPANISH NEC PERSONNEL: BASIC AGREEMENT ON
THE CONSTRUCTION OF THE BURIAL PIT HAS BEEN ACCOMPLISHED, IE 1 1/2 MM
LEAD LINED ON TOP AND BOTTOM AND 2 1/2 MM LEAD LINED ON SIDES. ROOF
WILL BE OF SELF SUPPORTING CONCRETE OF APPROXIMATELY 15
INCH THICKNESS.

THE SPANISH NEC PERSONNEL ARE CONDUCTING AN INVESTIGATION AND
TESTS ON THE CAUSE OF SEVERAL THOUSAND BEES, TEST SHALL
ALSO BE MADE ON THE BEE HIVES AND HONEY. FURTHER RESULTS WHEN

AVAILABLE.

~~SECRET~~ [ATOMIC ENERGY ACT 1954]

2-6-3308

P-4

~~SECRET~~

RESTRICTED DATA
PAGE 3 ROT (SN 27A) 1954

TODAY USAF PERSONNEL ARE REMOVING THE WATER FROM THE SCHOOL'S DRINKING WATER CISTERN, THE CISTERN SHALL BE CLEANED AND THE WATER SHALL BE REPLACED WITH POTABLE WATER.

SITE 2 INFO FOLLOWS: ARMY MINE-SWEE TEAM CONTINUING WORK, RESULTS OF THEIR CLEAN-UP OF SMALL DEBRIS IS NOTEWORTHY. DURING GRADING AND BULLDOZING OPERATIONS, WATERING FOR DUST CONTROL AND AIR SAMPLING ARE PERFORMED. NINE SAMPLES TAKEN AND RESULTS ARE ALL NEGATIVE.

THE 7,000 CPM LINE HAS BEEN ESTABLISHED AND MAPPED. CROP REMOVAL HAS COMMENCED.

TRUCKS EQUIPPED WITH LARGE ENCLOSED PLYWOOD BOXES HAVE BEGUN MOVING VEGETATION FROM CLEARED FIELDS TO LIME PIT. (AFTER CONSTRUCTION OF BURIAL PIT IS COMPLETED THIS VEGETATION WILL BE REMOVED FROM THE LIME PIT AND PLACED IN THE BURIAL PIT).

SITE 3 INFO FOLLOWS: CROP CLEARING OPERATION IS CONTINUING. PLOTS ARE BEING SELECTED FOR WATERING, PLOWING AND RECONTORING OPERATIONS.

VILLAGE: THE VILLAGE OF PALOMARES HAS BEEN REDESIGNATED SITE 5. ALL REFERENCE TO PALOMARES HERE AFTER WILL BE TERMED SITE 5. USAF AND NEC MONITORING OF SITE 5 IS COMPLETED.

P-5

2-6-3308

PAGE 4 RUTQB

~~SECRET~~
CAMP AREA: CAMP AREA AND EQUIPMENT MONITORING WAS ACCOMPLISHED WITH NEGATIVE RESULTS. SEA WATER SAMPLE RESULTS WERE NEGATIVE. CLAIMS: EMERGENCY CLAIMS PAID ON WW FEB 66, 2 CLAIMANTS WERE PAID \$466.67. TOTAL CLAIMANTS TO DATE 79, TOTAL AMOUNT CLAIMS PAID TO DATE \$311,100.00

G. NO CHANGE.

H. NO CHANGE

I. NO CHANGE.

J. NO CHANGE

K. SEE "F" ABOVE.

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE.

A.B. BRUZAKER, CAPTAIN, HQ 16AF, DMAE, EXT 3003, TORREJON AB, PAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

BT

~~SECRET~~

2-6-3308

NNNN

PRIORITY

NNNPUA335VV TUA642PQA736

3 FEB 66 22

ACTION

INFO

PP RUWPUJ

DE RUWPQA 195C 0342030

ZNY SSSSS

P 032021Z

FM W F WHITE USAEC ALBUQUERQUE NMEX

TO RUT 08N16AF TORREJON AB SPAIN ATTN ADVON PASS TO RC MAYDEV

/SERIES C/

INFO RUWFFNA/DNS KIRTLAND AFB NMEX/SERIES D/

RUPEXG/LCDR G HEDRICK DMA USAEC WASHDC/SERIES E/

RUWPUJ/LCOL CARL JOHNSON WACC FC/DASA SANDIAB/SERIES F/

RUMPL/FRANK DUNN LASI LCB ALAMOS NMEX/SERIES G/

RUMPRS/W BARTON S MOORE SANDIA CORP ALBUQ NMEX/SERIES H/

ADC

BT

~~THIS DOCUMENT CONSISTS OF [REDACTED] PAGES~~

RE: ANALYSIS OF ACFT COLLISION NEAR VERA,

SPAIN BY SANDIA CORP TEAMS (MESSAGE 5). GEF: SRD MSG, 1 FEB 0900

ALBUQ CITE C-00108, W R BARTON, SANDIA CORP, 9320.

TO: RC MAYDEV, SANDIA CORP. FROM W R BARTON AND W N. CAUDLE. THIS

MESSAGE IN FIVE PARTS.

~~THIS DOCUMENT CONSISTS OF [REDACTED] PAGES~~

PART 1: OUR ASSUMPTIONS, BASED ON YOUR MSG OF 1 FEB. (1) SECONDARY

REMAINED INTACT DURING IMPACT. (2) THERE WAS NO HE DETONATION WITH

SECONDARY IMPACT. (3) SLAG PILES ARE MORE THAN 20 YEARS OLD.

(4) ANY SAND NOT ON THE BEACH IS DRY. (5) CALICHE IS LIGHTLY

CEMENTED, LIKE MESA SOIL IN ALBUQUERQUE. (6) LOAN MEANS AN

2-633357
Discop

PAGE TWO RUWPQA 195C [REDACTED]

IRRIGATED AND PLOWED FIELD. PART II: CRATER INFORMATION. IN SLAG AND TAILING PILES, NOSE-ON CRATER WILL BE LESS THAN 3 FEET ACROSS AND MAY BE INVISIBLE IF ON SLOPE OF PILE. LENGTHWISE CRATER WILL BE LESS THAN 8 FEET ACROSS.

CRATER ON SLAG OR TAILING PILE SHOULD BE DARKER THAN SURFACE OF PILE, AND YOU SHOULD SEE THROWOUT RAYS OF DARKER MATERIAL. THERE PROBABLY WILL BE NO READILY VISIBLE CRATER LIP. IN DRY SAND NOSE-ON CRATER SHOULD BE ABOUT 3 FEET ACROSS; LENGTHWISE CRATER ABOUT 8 FEET ACROSS. CRATER SLOPES WILL BE VERY FLAT, LESS THAN 20 DEGREES AND WILL PROBABLY HAVE NO READILY VISIBLE CRATER LIP OR THROWOUT RAYS. CRATER ON SANDY BEACH WILL SURELY BE DISTORTED AND LIKELY DESTROYED BY TIDES. CRATER IN CALICHE WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL PROBABLY BE 30 TO 40 DEGREES. FALLBACK AND THROWOUT IN AND AROUND CRATER SHOULD BE CHUNKY. YOU MAY BE ABLE TO SEE THROWOUT RAYS AND PERHAPS RADIATING CRACKS CLOSE TO CRATER. CRATER IN LOAM WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL BE ABOUT 20 TO 30 DEGREES.

IF LOAM IS MOIST, CRATER WILL BE SMALLER AND THE SLOPES STEEPER

P2 [REDACTED]

2-6-3357 [REDACTED]

~~SECRET~~

PRIORITY

~~SECRET~~

8 FEB 66 00 07

PUA9 78T UA3 73Q TC5 23

ACTION

INFO

OP-7, 8

SE-9

TR-10, 11

OV-12, 13, 14

AM-15

PP RUMPUJ

DE RUTQCS 1134 0382135

ZNY SSSSS

IBT

SECRET RD SVC ZUI RWPQS ;3S 0381840 X ALSO TO RUMPUJ X

AZDK RUTQBN 002A 0380931 P 070805Z

PP RWPQS RWPQJ

DE RUTQBN 002A 0380931

ZNY SSSSS

P 070805Z FEB 66

FM ICAF ADVON SPAIN

TO RUEPXG/AEC WASH DC

IRWPGA/AEC ALD ALBUQ NMEX

RWPPQS/SANDIA CORP ALBUQ NMEX

RWPPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NMEX

RWPPFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NME

RWPPQS/FC DASA SANDIA BASE ALBUQ NMEX

BT P1

~~RESTRICTED DATA~~

~~ARMED SERVICES~~

~~THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION~~

2-6-3670

W-PNS DISCREP

~~SECRET~~

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

246-566-5000
NOV 77
PAGES 1

~~SECRET~~

~~SECRET~~ C-00171 FEB 66. FOR DIRECTOR OF MILITARY APPLICATION, AEC WASH DC. FOR W.R. HOAGLAND, AND ORG 9320 SANDIA CORP, ALBUQ, NMEX. FROM AEC NUCLEAR WEAPON SAFETY TEAM. REFERENCE STATUS OF SEARCH OPERATION AT PALOMARES, SPAIN, ACCIDENT. THE SYSTEM ANALYSIS TEAM HAS COMPLETED THE IDENTIFICATION OF MOST PROBABLE IMPACT AREAS FOR WEAPON NO. 4 OR PARTS THEREOF. GROUND SEARCH OPERATIONS ARE TO BE INTENSIFIED BEGINNING MONDAY IN AN CURCULAR AREA 5000 FT IN RADIUS WHOSE MID POINT IS 37 DSGREES 49.65 MINUTES NORTH, 1 DEGREE 49.9 MINUTES WEST. SEA SEARCH OPERATIONS ARE TO BE ALIGNED ALONG THE 300 DEGREE AVARAGE WIND CORRIDORS WITH EMPHAUS

PAGE 2 RUTQBN 002A ~~SECRET RESTRICTED DATA~~

AT A POINT DETERMINED BY THE SPANISH FISHERMAN'S TESTIMONY. CONTINUING ASSISTANCE BY THE NUCLEAR WEAPON SAFETY TEAM WILL CONSIST OF LIAISON, VERIFIVATION OF PROMISING IMPACT CRATERS, AND IDENTIFICATION OF WEAPON PARTS WHEN FOUND.

GP-1

BT

P2

~~SECRET RESTRICTED DATA~~

2-6-3670

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~~SECRET~~

PRIORITY

~~SECRET~~

8 FEB 66 00 07

PUA978TUA373QTC523

ACTION INFO

OP-7,8

SE-9
TB-10,11
OV-12,13,14
AM-15

PP RUMPUJ

DE RUTQCS 1134 0382135

ZNY SSSSS

IBT

SECRET RD SVC ZUI RWPQS ;3S 0381840 X ALSO TO RUMPUJ X

AZDK RUTQBN 002A 0380931 P 070805Z

PP RWPQS RWPQJ

DE RUTQBN 002A 0380931

ZNY SSSSS

P 070805Z FEB 66

FM ICAF ADVON SPAIN

TO RUEPXG/AEC WASH DC

IRUWPQA/AEC ALQ ALBUQ NMEX

RUWPQS/SANDIA CORP ALBUQ NMEX

RUWPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NMEX

RUWMFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NME

RUWPQS/FC DASA SANDIA BASE ALBUQ NMEX

BT P1

~~RESTRICTED DATA~~

~~RESTRICTED DATA~~

~~THIS DOCUMENT CONTAINS RESTRICTED DATA~~

2-6-3670
WPNS DISCREP

~~SECRET~~
SECRET

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

246-366-6000
PAGE(S)

[REDACTED]

~~SECRET~~ C-00171 FEB 66. FOR DIRECTOR OF MILITARY APPLICATION, AEC WASH DC. FOR W.R. HOAGLAND, AND ORG 9320 SANDIA CORP, ALBUQ, NMEX. FROM AEC NUCLEAR WEAPON SAFETY TEAM. REFERENCE STATUS OF SEARCH OPERATION AT PALOMARES, SPAIN, ACCIDENT. THE SYSTEM ANALYSIS TEAM HAS COMPLETED THE IDENTIFICATION OF MOST PROBABLE IMPACT AREAS FOR WEAPON NO. 4 OR PARTS THEREOF. GROUND SEARCH OPERATIONS ARE TO BE INTENSIFIED BEGINNING MONDAY IN AN CURCULAR AREA 5000 FT IN RADIUS WHOSE MID POINT IS 37 DSGREES 49.65 MINUTES NORTH, 1 DEGREE 49.9 MINUTES WEST. SEA SEARCH OPERATIONS ARE TO BE ALIGNED ALONG THE 300 DEGREE AVARAGE WIND CORRIDORS WITH EMPHAUS

PAGE 2 RUTQBN 002A ~~SECRET RESTRICTED DATA~~

AT A POINT DETERMINED BY THE SPANISH FISHERMAN'S TESTIMONY. CONTINUING ASSISTANCE BY THE NUCLEAR WEAPON SAFETY TEAM WILL CONSIST OF LIAISON, VERIFIVATION OF PROMISING IMPACT CRATERS, AND IDENTIFICATION OF WEAPON PARTS WHEN FOUND.

GP-1

BT

P 2

~~SECRET RESTRICTED DATA~~

2-6-3670

[REDACTED]

~~SECRET~~

~~SECRET~~ [REDACTED]

NNNNPUA 43 8Z 88 16

OO RUWPUJ

Z DY SSSSS ZOV RUEPWZ

EULI 38 EUM838CEC 228

OO RUEPWZ

DE RUTQBN 008A 0401500

Z NY SSSSS

O 091400Z FEB 66

FM 16AF ADVON

9 FEB 66 18 36

IMMEDIATE

ACTION INFO

*OP-78,9 SE-10
TG-11,12
Gulbd Sgt Swann 1835 DV-13,14,15
AM-16*

[REDACTED]
[REDACTED] DIR 5200.10
[REDACTED] NOT APPL

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAF

RUMFNA/DIR NUG SFTY KIRTLAND AFB NM

RUVHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCWAA/HQ 2 AF BARKSDALE AFB LA

RUEIBH/HQ 8 AF WESTOVER AFB MASS

RUTQBN/HQ 16 AF TORREJON AB SPAIN

RUCWU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCWU/97 BW BLYTHEVILLE AFB ARK

RUETFX/68 BW SEYMOUR JOHNSON AFB NC

RUBBAA/AFSC ANDREWS AFB MD

IMMEDIATE

[REDACTED]

THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION
NO. 17 OF 17 COPIES SERIES

2-6-3895

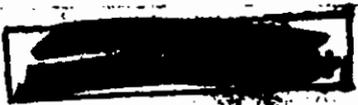
P1

~~SECRET~~
[REDACTED]
~~SECRET~~

THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION
NO. 17 OF 17 COPIES SERIES

11/20

~~SECRET~~



DSQ/AFLC WF

- RUWGN/SAAMA KELLY AFB TEX
- RUWNA/AFSWC KIRTLAND AFB NM
- RUWHHL/OAMA HILL AFB UTAH
- RUWGNK/OAMA TINKER AFB OKLA
- RUWTBIA/DA ATB EGLIN AFB FLA
- INFO RUPPBW/USAFE CP
- RUCVSK/SAC OTSL CARSWELL AFB TEX
- RUEPWZ/FC DASA SANDIA AFB NM
- RUTHBH/CHIEF JSMAG SPAIN

BT

~~SECRET~~ C-00193 FEB 66

SUBJ: SUPPLEMENTAL REPORT NO. 16 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASD (AE); CSAF AND AFIGO, AFIIIS, AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DUSD; 2, 8, 16AF, 42, 822 AD (DO, DM, DS); 68 & CU BW (DCO, DCM, DS); SCIZ; MCASS; SWVN; JOYS; JSMAG FOR GEN DONOVAN; FC DASA. THIS CONSITITUATES ADDITIONAL OR CORRECTED INFO TO REPIS FROM 16AF ADVON SEC RET/RD

- NR
MSGs C0010, 23 JAN 66; C0028, 24 JAN 66; C 0034, 25 JAN 66;
- NR
C 0041, 26 JAN 66; C 0054, 27 JAN 66; C 0066, 28 JAN 66;
- 1-6-9151
C 0080, 29 JAN 66; C 0085, 30 JAN 66; C 0098, 31 JAN 66;

1-6-5396

1-6-5532

1-6-5843

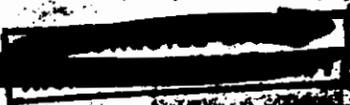
1-6-9529

1-6-9189

1-6-9216

P 2

~~SECRET~~



2-6-3895

PAGE 2 RUIQBN 008

~~SECRET~~
2-6-3089
C 00111, 1 FEB 66; C 00123, 2 FEB WYV C 00134, 3 FEB 66;
2-6-3458
C 00145, 4 FEB 66; C 00160, 5 FEB 66; C 00174, 7 FEB 66; 9 FEB
2-6-3646
66. THIS REPT COVERS REQUIREMENTS OF AICM'T 4, AFR 127-4. GP-1

A. NO CHANGE

B. NO CHANGE. WEAPON NR. 4, MK28Y1, MOD 2, SERIAL NUMBER 45345, HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE SEARCH FOR WEAPON NR. 4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL. TWO FIELDS IN SITE NR. (PLOT NR 12 AND PLOT NR. 16) HAVE BEEN PLOWED AND MONITORED. MONITORING RESULTS WERE ZERO CPM, THE SPANISH NEC HAVE ACCEPTED THESE RESULTS, AND THE LAND WILL BE RETURNED TO THE SPANISH FARMERS FOR USE.

A VERBAL AGREEMENT HAS BEEN MADE WITH SPANISH NEC PERSONNEL ON THE DISPOSITION OF CONTAMINATED VEGETATION IE VEGETATION WITH READINGS OF LESS THAN 400 CPM WILL BE MULCHED AND DEPOSITED IN THE DRY RIVER BED. VEGETATION WITH READINGS IN EXCESS OF 400 CPM WILL BE MULCHED AND DEPOSITED IN THE TEMPORARY BURIAL PIT AT SITE NR. 2.

SITE NR. 2 INFO TO FOLLOW: SOIL SCRAPING OPERATIONS ARE CONTINUING

R3

~~SECRET~~ 2-6-3089

PAGE 3 RUTQBN 008A

~~SECRET~~ RESTRICTED
GENERAL INVESTIGATIVE DIVISION

IN THE 7000 CPM AND OVER AREA OF SITE NR. 2. CONTINUAL WATERING OF THE AREA BEING SCRAPED IS PERFORMED AS A DUST CONTROL. DETAILED MONITORING IS PERFORMED DAILY TO ASSURE THE SPECIFIC LOCATION OF THE 7000 CPM AND ZERO CPM LINES.

SITE NR. 3 INFO TO FOLLOW: REMONITORING TO RECONFIRM THE PREVIOUSLY ESTABLISHED 7000 CPM LINE WAS PERFORMED ON 7 FEB. ADDITIONAL 7000 CPM AREA WAS IDENTIFIED DURING THIS OPERATION, THIS AREA IS FARM LAND LOCATED TOWARD THE RIVER BED FROM SITE NR. 3. THE ADDITIONAL AREA IS A STRIP OF LAND 3600 FEET LONG AND 100 FEET WIDE (APPROX 9 1/2 ACRES) THIS IS IN ADDITION TO THE PREVIOUS ESTIMATE OF 1 1/2 ACRES. VEGETATION MULCHING OF CLEARED CROPS HAS BEGUN.

ALL CONTAMINATED SOIL HAS BEEN REMOVED FROM PLOT NR. 1 (GROUND ZERO) OF SITE NR. 3. DURING 7 & 8 FEB 42 TRUCK LOADS (APPROX 126 CUBIC YARDS) WERE REMOVED TO THE TEMPORARY DISPOSAL PIT AT SITE NR. 2. THE GRAND TOTAL OF SOIL REMOVAL IS 76 TRUCK LOADS (APPROX 228 CUBIC YARDS)

SITE NR. 5 INFO TO FOLLOW: DECONTAMINATION OF THE SCHOOL CISTERN IS COMPLETE, THE CISTERN HAS BEEN REFILLED WITH POTABLE WATER.

THE CRITERIA FOR THE DECONTAMINATION OF HOUSES WITHIN SITE C. 5 WAS PREVIOUSLY REPORTED AS THOSE WHICH HAVE READINGS OF 7000 CPM OR GREATER. THIS IS AN ERROR. HOUSE-WASHING (DECONTAMINATION) IS PERFORM-

24

~~SECRET~~ RESTRICTED
GENERAL INVESTIGATIVE DIVISION
ATOMIC ENERGY ACT 1954

2-6-3895

FC/01660923

PAGE 4 RUTQBN 008A

~~SECRET~~

A

34

ED UPON SPECIFIC REQUEST OF THE SPANISH NEC MONITORS.

SITE NR. 6 INFO TO FOLLOW: DETAILED MONITORING IS CONTINUING. READINGS VARY FROM ZERO TO 5000 CPM. CONSERVATIVE ESTIMATE OF AVAILABLE DATA INDICATES THAT SITE NR. 6 IS AN EXTENSION OF THE SITE NR. 3 ZERO CPM LINE. MISCELLANEOUS: CAMP SITE MONITORING OF LIVING QUARTERS, HIGH TRAFFIC AREAS, DECONTAMINATION/SHOWER AND LAUNDRY CONTINUE TO GIVE NEGATIVE RESULTS. SAMPLES OF SEA WATER, SHOWER AND LAUNDRY EFFLUENT CONTINUE TO GIVE NEGATIVE RESULTS.

CLAIMS: EMERGENCY PAYMENTS THROUGH 8 FEHAVE BEEN MADE TO 106 CLAIMANTS FOR A TOTAL OF \$4489.68.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE

K. SEE "F" ABOVE.

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. A. B. BRUBAKER, CAPT, HQ 16AF, DM4E, EXT 3003, TORREJON AB, SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1.

BT

~~SECRET~~

UNCLASSIFIED DATA
ATOMIC ENERGY 12-10-64

2-6-3895

P-5

~~SECRET~~

PAGE 3 RUTQBN 6A S E C R E T

~~SECRET~~

MISCELLANEOUS: PLOWING OF FIELDS PLOTS WHICH HAVE HAD VEGETATION REMOVED IS CONTINUING. APPROXIMATELY 100 ACRES HAVE BEEN PLOWED TO DATE.

MONITORING AND SAMPLING RESULTS OBTAINED IN THE CAMP AREA CONTINUE TO BE NEGATIVE.

CLAIMS: THROUGH 1200 HOURS 13 FEBRUARY 66:

CLAIMS PROCESSED AND PAID 13

AMOUNT PAID: \$2,789.00

EMERGENCY PAYMENTS: 137

AMOUNT PAID: \$6,940.87

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE "F" ABOVE

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE.

O. A.B. BRUBAKER, CAPTAIN, HQ16AF, DM4E, EXT 3003, TORREJON AB, SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE.

BT P4

~~SECRET~~

~~CONFIDENTIAL~~

2-6-5112

NNNNPUA929V WZB061

16 FEB 66 22 35

PP RUWPUJ

~~RESTRICTED DATA~~
~~ATOMIC ENERGY ACT~~

ZNY SSSSS ZQV RUEPWZ

ZCZCEUL 492 EUH665CEF354

ACTION	INFO
OP-7, 8	SE-9
	TG-10, 11
	DV-12, 13, 14
	AM-15

PP RUEPWZ

DE RUTQBN 013A 0471900

ZNY SSSSS

P 161700Z FEB 66

FM 16TH AF ADVON

TO RUEKDA/SECRETARY OF DEFENSE

RUWMFNA/DIR NUG SFTY KIRTLAND AFB NM

RUWHNF/DIP INSPSFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCVAA/HQ 2 AF BARKSDALE AFB LA

RUETBH/HQ PAF WESTOVER AFB MASS

RUTQBNA/HQ 16AF TORREJON AB SPAIN

RUCVHA/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCVHU/97BW BLYTHEVILLE AFB ARK

RUETFK/68TH BW SEYMOUR JOHNSON AFB NC

RUEBAA/AFSC ANDREWS AFB MD

RUCDSQ/AFLC WPAFB

RUWGNH/SAAMA KELLY AFB TEXASZ

RUWMFNA/AFSWC KIRTLAND AFB NM

RUWHHL/OCVA HILL AFB UTAH

RUWGNK/OCAMA TINKER AFB OKAL

RUWTBTA.DA ATB EGLIN AFB FLA

INFO RUFFBWL/USAFE CP

~~RESTRICTED DATA~~
~~ATOMIC ENERGY ACT~~
6 COPIES, SERIES
RECORDED IN FILE FCBZ

2-6-4679
NPNWS DISCREP

~~RESTRICTED DATA~~
~~ATOMIC ENERGY ACT~~
16 FEB 66 000923

~~SECRET~~

V

SK/SAC OTSL CARSWELL AFB TEXAS

RUEPWZ/FC DASA SANDIA AFB NM

RUTHBH/CHIEF JUSMAG SPAIN

BT

~~SECRET~~ DATA C-00255 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NO. 18 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS,
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF,
42, 822 AD (DO, DM, DS); 68 & 97 B (DCO, DCM, DS); SCIZ; MCASS;
SWVN; OOYS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES
ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET/RD

1-6-5396
1-6-5532
MESGS C 00010, 23 JAN 66; C 0028, 24 JAN 66; Q 0034, 25 JAN 66;
NIR
1-6-5843
1-6-9092
00041, 26 JAN 66; C 00054, 27 JAN 66; C 00066, 28 JAN 66; C 00080,
9151
1-6-9189
1-6-9216
2-6-3089
29 JAN 66; C 00085, 30 JAN 66; C 00098, 31 JAN 66; C 00111, 1 FEB

P2

~~SECRET~~ 2-6-4679

PAGE 3 RUTQBN 013A [REDACTED]

SITE NR. 5 INFO TO FOLLOW: USAF AND NEC MONITORING AND DECONTAMINATING OF HOUSES CONTINUES.

SITE NR. 6 INFO TO FOLLOW: USAF AND NEC PERSONNEL ARE CONTINUING THEIR MONITORING FUNCTIONS IN THE PUEBLO OF VILLARICOS. ESTABLISHMENT OF THE ZERO CPM LINE WAS COMPLETED ON 16 FEBRUARY.

MISCELLANEOUS: THE HIGH WINDS MENTIONED IN THE PREVIOUS REPORT DID NOT EFFECT ANY SIGNIFICANT CHANGE TO THE 7000 CPM OR ZERO CPM LINES. THESE WINDS DID HOWEVER HAMPER DECONTAMINATION EFFORTS (PLOWING AND VEGETABLE MUNCHING)

DURING THE EVENING HOURS OF 15 FEBRUARY, A WELCOM ALTHOUGH LIGHT RAIN SPRINKLED THE LOCAL AREA, ITS EFFECT IN PREVENTING DUST WAS NOTICABLE, ITS EFFECT IN LEACHING AWAY CONTAMINATION REMAINS TO BE EVALUATED.

AIR SAMPLING RESULTS CONTINUE TO BE NEGATIVE. MONITORING OF BUSES, TENTS, MESS HALL, SEA WATER, LAUNDRY AND SHOWER EFFLUENTS CONTINUE TO REVEAL NEGATIVE RESULTS.

A CONTROL STATION HAS BEEN ESTABLISHED TO MONITOR ALL PERSONNEL AND AFFECTS AND VEHICLES PRIOR TO DEPARTURE FROM CAMP. DECONTAMINATION MUST BE PERFORMED WHENEVER READINGS IN EXCESS OF 450 CPM ARE ENCOUNTERED.

py

[REDACTED] 2-6-4679

[REDACTED] 3

PAGE 4 RUTQBN 013A

~~SECRET~~

AS OF 1800 HOURS ON 15 FEBRUARY THE FOLLOWING SAMPLES OR SPECIMENS HAD BEEN TAKEN AND SUBMITTED TO WPAFB LABORATORY FOR ANALYSIS:

- 435 URINE
- 3 SOIL
- 11 NASAL SWABS
- 28 VEGETATION
- 1 BEE SAMPLE
- 1 HONEY SAMPLE
- 1 HIVE PORTION

A TOTAL OF 229 AIR SAVPLES HAVE BEEN TAKEN.

CLAIMS: THROUGH 12 HOURS ON 15 FEBRUARY, 6 FINAL CLAIMS HAVE BEEN PAID FOR AN AMQUNT OF \$2060.67. 128 EMERGENCY PAQMENTS HAVE BEEN PAID FOR A TOTAL OF \$6050.59.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE "F" ABOVE.

L. NO CHANGE.

PS

~~SECRET~~

2-6-4679

PAGE 5 RUTQBN 013A S [REDACTED]

M. NO CHANGE.

N. NO ZCZCEUL 493 GE.

O. A.B. BRUBAKER, CAPTAIN, HQ 16AF, DM 4E, EXT 3003, TORREJON AB,
SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

BT

P6

~~SECRET~~ [REDACTED]

2-6-4679

~~SECRET~~ [REDACTED]

17 FEB 66 13 43

PUA 065 TUA 69 001 B 034

PP RUWPUJ

DE RUTQBN 07A 048 12 00

ZNY SSSSS

P 171016Z FEB 66

FM 16AF ADVON SPAIN

ACTION	INFO
OP-78	SE-9
	TG-19, 11
	DV-12, 13, 14
	AM-15

TO RUWPGA/USAEC ALBUQUERQUE NM

RUEPXG/LSAEJ WASHINGTON DC

RUWPQS/SANDIA CORP ALBUQUERQUE NM

RUWPQL/DIR LOS ALAMOS SCIENTIFIC LAB LOS ALAMOS NM

RUWMFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NM

RUWPUJ/COMDR FC DASA ALBUQUERQUE NM

BT

~~SECRET~~ C00263. FEB 66. FOR: W.F. WHITE USAEC

ALBUQUERQUE; LCDR G. HEDRICK USAEC WASHINGTON; W. R. HOAGLAND 1544

AND R. C. MAYDEW 9320 SANDIA CORP. FROM AEC NUCLEAR SAFETY TEAM.

THE FOUR PREVIOUSLY REPORTED CRATERS HAVE BEEN INVESTIGATED IN

ACCORDANCE WITH IMPACT CRATER INFO FROM WSMR TESTS WITH NEGATIVE

RESULTS. NEW GROUND SEARCH SWEEPS OF THE IMPACT AREA BEGUN SATURDAY

FEB 12, AND ARE PRODUCING ADDITIONAL POINTS OF INTEREST FOR INVESTIG

ATION. GP-1.

BT

~~SECRET~~ [REDACTED]

2-6-4761
wp + [signature]

ATOMIC ENERGY ACT 1954

ACTION INFO

OP-718 SE-9
TG-10,1
Y-12,13,
AM-15

PRIORITY

~~SECRET~~

15 FEB 55

14	DYS RECD	REPROJ
	ACTION	INFO
	AFINS	
	AFINST	
	AFINSN	
	AFINSR	
	AFINSW	2
	AFINSE	1
	AFIDMS	
	RETURN COPY	4
		3-CPL

0702
 PPTS JAW RUTVSA0074 0461254-SSSS--RUTVNA.
 DE RUEKDA 0750 8452310
 ZNY SSSSS
 P 142317Z
 FM SECDEF
 TO ZEN/CSAF
 INFO RUTVNA/16TH AF
 RUTVNA/16TH ADVON
 RIEPC/SEC GERMANTOWN
 RUTVNA/DNS KIRTLAND
 BT

~~THIS DOCUMENT CONTAINS INFORMATION OF A CONFIDENTIAL NATURE~~

~~SECRET~~ REF 3969 FROM ATSD(AE)

INFORMATION AVAILABLE HERE INDICATES LABORATORY EXAMINATION OF
 HOT SPOTS ON S-52 TAIL AND KC-135 NACELLE MAY SHED SOME LIGHT ON
 FATE OF WEAPON NO. 4. SPECIFICALLY, NATURE OF CONTAMINATION (METAL
 OR OXIDE) AND EVIDENCE OF PLATING OR IMPACT DEPOSITION MAY BE
 IMPORTANT CLUES IN FUTURE ANALYSES. AEC HAS AGREED TO UNDERTAKE
 LABORATORY WORK. REQUEST USAF ADVISE PRESENT LOCATION SUBJECT
 MATERIAL AND ARRANGE EXPEDITED SHIPMENT TO DNS KIRTLAND.
 FOR DNS FINAL DESTINATION INSTRUCTIONS WILL FOLLOW.

AFINS 680132

[Handwritten signature]

2-6-4784
[Handwritten initials]

~~SECRET~~
~~CONFIDENTIAL~~

3	CYS RECD	1	REPROD
	ACTION		INFO
		15	FEB 56
			19 20
	AFINST		
	AFINSN		
	AFINSR		
	AFINSW		
	AFINSE		
	AFIDIMS	4	TO AL
	COPY	3	CP

PFTS JAW RIJTVSA0879 8461911-SSSS--RUZ
 DE RUTQBH 87A 8461815
 ZNY SSSSS
 P 151800Z FEB 66
 FM 16AF ADVON SPAIN
 TO RUEAHQ/CSAF
 INFO RUTQBNA/16AF TORREJON AB SPAIN
 RUJSC/HQ SAC OFFUTT AFB NEBR
 RIEPXS/AEC GERMANTOWN
 RIEJDA/SECDEF WASH DC
 RUMFRA/DNS KIRTLAND
 BT

PRIORITY

ACTION | INFO

~~SECRET~~

OP-718 SE-9
 TG-10,11
 DV-12,13,14
 AM-15
 [Handwritten scribbles]

[REDACTED] C 88243, FEB 66, THE NUMBER 3 KC-135 ENGINE AND
 WHELLE HAVING A SMALL HOT SPOT READING 5000 CPW HAS BEEN
 SHIPPED TO OCAMA FOR ENGINE ANALYSIS. A SMALL PIECE OF B-52
 ELPHENAGE SX1H (3000 CPW), SAM 72 PARTIAL RACK (300-10,000 CPW)
 AND OTHER MISCELLANEOUS AIRCRAFT PARTS WITH LOWER READINGS BEING
 PACKAGED FOR SHIPMENT AT TORREJON. WILL SEND TO DNS KIRTLAND
 NEXT AVAILABLE AIRLIFT. CP-1.

BT /30 AFINS 666489 [REDACTED]

~~SECRET~~

Airtel 240 [unclear]
 [Handwritten notes and scribbles]

2-6-4785
 WPN DISC

~~SECRET~~ [REDACTED]

NNNTTPUA957WZ B405

PP RUWPUJ

27 FEB 66 20 04

PRIORITY

ZNY SSSSS ZOV RUEPWZ

EUL057EUH129CEB570

PP RUEPWZ

DE RUTQBN 06A 0581743

ZNY SSSSS

P 271625Z FEB 66

[REDACTED]

F.M 16AF ADVON

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAF

RUWMFMA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCVAA/HQ 2AF BARKSBALE AFB LA

RUETHB/HQ 8AF WESTOVER AFB MASS

RUTQBNA/HQ 16AF TORREJON AB SPAIN

RUCVHU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCWHU/97BW BLYTHEVILLE AFB ARK

RUETFK/68BW SEYMOUR JOHNSON AFB NC

RUEBBAA/AFSC ANDREWS AFB MD

RUCDSQ/AFLC WPAFB

RUWGNH/SAAMA KELLY AFB TEXAS

RUWMFMA/AFSVC KIRTLAND AFB NM

PI

ACTION	DND
OP-7, 8, 9	SE-10
	TG-11, 12
	DV-13, 14, 15
	AM-16

Added 2 to SIC F 0152
~~THIS DOCUMENT CONTAINS UNCLASSIFIED INFORMATION~~
NO. 1070 GROUPS SERIES

[REDACTED] 2-6-5710
[REDACTED] WPNB DISCREP

[REDACTED]

RUWHHL/OCAMA HILL AFB UTAH

RUWGNK/OCAMA TIMKER AFB OKLA

RUWTBTA/DAD ATB EGLIN AFB FLA

INFO RUCVSK/SAC OTSL CARSWELL AFB TEXAS

RUFFBWL/USAFE CP

RUEPVZ/FS DASA SANDIA AFB NM

RUTHEH/CHIEF JUSMAG SPAIN

BT

SUPPLEMENTAL REPORT NO. 20 (ADVON) OF NUCLEAR ACCIDENT (BROKEN
ARROW) C-00351 FEB 66. SUBJECT:

SUPPLEMENTAL REPORT NO. 20 (ADVON) OF NUCLEAR ACCIDENT (BROKEN
ARROW). SEC DEF FOR ASD (AE) CSAF AND AFIGO, AFFIS, AFSS-AE, AFINS;
68 & 97 BW (DCO, DCM, DS) SCIZ;; MCASS; SWN; OOYS; JUSMAG FOR GEN
DONOVAN; FS DASA. THIS CONSISTUTES ADDITIONAL OR CORRECTED INFO TO

REPTS FROM 16AF ADVON SECRET/RD MESGS C 00010, 23 JAN 66; C 00028,

24 JAN 66; C 0034, 25 JAN 66; C 00041, 26 JAN 66; C 00054, 27 JAN 66;

C 00066, 28 JAN 66; C 00080, 29 JAN 66; C 00085, 30 JAN 66; C 00098,

31 JAN 66; C 00111, 1 FEB 66; C 00123, 2 FEB 66; C 00134, 3 FEB 66;

P2

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

PAGE 3 RUTQBN 06A

[REDACTED] ATOMIC [REDACTED]
FIELDS WHERE VEGETATION HAS BEEN REMOVED IS APPROXIMATELY 90 PER CENT COMPLETE.

SITE #5 INFO TO FOLLOW: THIS SITE IS COMPLETED AND HAS BEEN SIGNED FOR BY ALL AGENCIES CONCERNED AND TURNED OVER TO THE LAND OWNERS.

MISCELLANEOUS: CAMP MONITORING CONTINUES TO BE NEGATIVE. SITE #3 DECONTAMINATION SHOWERS ARE OPERATING VERY EFFECTIVELY. OUTGOING PERSONNEL MONITORING AND DECONTAMINATION CONTINUES TO BE SATISFACTORY. VEHICLES AND EQUIPMENT BEING PERMANENTLY RELEASED FROM THE CAMP CONFINES ARE MONITORED PRIOR TO DISPATCH. WATERING FOR DUST CONTROL IS EFFECTIVE. AIR SAMPLING CONTINUES TO BE NEGATIVE.

CLAIMS: THRU 1200 HOURS

CLAIMS PAID: 16

AMOUNT PAID: \$3,330

EMERGENCY PAYMENTS: 170

AMOUNT OF EMERGENCY PAYMENTS: \$13,404.00

G. N/A

H. N/A

I. N/A

J. N/A

P4

~~SECRET~~

2-6-5710

[REDACTED] 23

PAGE 4 RUTQBN 06A

SECRET

K. SEE "E" ABOVE

L. NO CHANGE

M. NO CHANGE

N. NO CHANGE

O. COLONEL A E WHITE, 16AF (DE), EXT 3420. THIS
REPORT INITIATED FROM ACCIDENT SITE. GP-1

BT

PS

2-6-5710

PRIORITY

NNNEAPUA133W

TH 22 FEB 66 21 29

~~SECRET~~

PP RUWPUJ

DE RUTQBN 6A BPTRQUTP

ZNY SSSSS

P 231649Z FEB

~~FROM ASTOR~~

FM 16AF ADVON SPAIN

ACTION

INFO

O RUEKDA /SECDEF

RUEAHQ /CSAF

RUWMFNA /DIR NUG SFTY KIRTLAND AFB NMEX

RUWHNF /DEP INSPSFTY NORTON AFB CALIF

RUCSC /HQ SAC OFFUTT AFB NEB

RUCVAA /HQ 2AF BARKSDALE AFB LA

RUETHB /HQ 8AF WESTOVER AFB MASS

RUTQBNA /-6AF TORREJON AB SPAIN

RUCVHU /42ND AIRDIV BLYTHVILLE AFB ARK

RUETSR /822ND AIRDIV TURNER AFB GA

RUCVHU /97BW BLYTHVILLE AFB ARK

RUETFK /68TH BW SEYMOUR JOHNSON AFB NC

RUEBAA /AFSC ANDREWS AFB MD

RUCDSQ /AFLC WPAFB

RUWGNH /SAAMA KELLY AFB TX

*OP-789
Called
Jgt Swanson
21 32 Z*

*SE-10
TG-11, 12
DU-13, 14, 15
AM-16*

total 24 of 26

~~SECRET~~

2-6-5316

P-1

~~SECRET~~

~~SECRET~~

JWMFNA/AFSWC KIRTLAND AFB NMEX

JWHHL/OQAMA HILL AFB UTAH

JWGNK/OQAMA INKER AFB OJUA

JWTBTA/DAD ATB EGLIN AFB FLA

JFO RUCVSK/SAC OTSL CARSWELL AFB TEXAS

JFPBWL/USAFE CP

JWPUJ/FC DASA SANDIA AFB NMEX

JHEH/CHIEF JUSMAG SPAIN

T

~~SECRET~~ C-00323. FEB 66.

UBJEC: SUPPLEMENTAL REPORT NO. 20 (ADVON) OF NUCLEAR ACCIDENT (BROKEN ARROW). SEC DEF FOR ASD (AE); CSAF AND AFIGO, AFIS, AFSS-(3, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF, 42, 822 AD DO, DM, DS; 68 AND 97 BW (DCO, DCM, DS); SCIZ; MCASS; SWVN; KOOYS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES ADDITIONAL OR

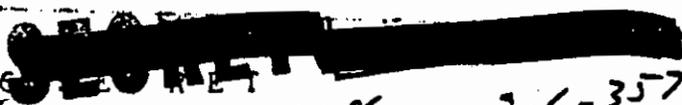
CORRECTED INFO TO REPTS FROM 16AF ADVMT3: 435/RD MESSAGES ^{NR} C00010, 23 JAN 66; ¹⁻⁶⁻⁵³⁹⁶ C-00028, 24 JAN 66; ¹⁻⁶⁻⁵⁵³² C-0034, 2 JAN 66; ^{NR} C-00041, 26 JAN 66; ¹⁻⁶⁻⁵⁸⁴³ C-00054, 27 JAN 66; ¹⁻⁶⁻⁹⁰²⁷ C00066, 28 JAN 66; ¹⁻⁶⁻⁹¹⁵¹ C-00080, 29 JAN 66; CBEEAPIN 30 JAN 66; ¹⁻⁶⁻⁹²¹⁶ C-00098, 31 JAN 66; ²⁻⁶⁻³⁰⁸⁹ C-00111, 1 FEB 66; ²⁻⁶⁻³¹⁸⁵ C-00123, 2 FEB 66

P-2

~~SECRET~~

2-6-5316

PAGE 2 RUQBN



2-6-3508 2-6-3458 2-6-3570 2-6-3646
C-00134, 3 FEB 66; C-00149, 4 FEB 66; C-00160, 5 FEB 66; C-00174, 7
2-6-3495 2-6-4170 2-6-4679
FEB 66; C-00193, 9 FEB 66; C-00209, 12 FEB 66; C-00255, 16 FEB 66;
2-6-5772
C-00294, 20 FEB 66; 230 137 66. THIS REPT COVERS REQUIREMENTS OF

ATTACHMENT 4, AFR 127-4. GP-1.

A. NO CHANGE

B. NO CHANGE. WEAPON NO. 4, MK28Y1. MOD 2 SERIAL NUMBER 45345, HAS NOT BEEN FOUND.

C. NO CHANGE

D. NO CHANGE

E. NO CHANGE

THE SEARCH FOR WEAPON NO. 4 STILL CONTINUES.

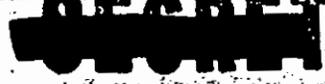
THE FOLLOWING ACTIVITIES WERE CONDUCTED BETWEEN 1800 HOURS BWP FEB THRU 1800 HOURS 22 FEB:

SITE NO. 2 INFO TO FOLLOW: HAULING OF CANE AND VEGETATION (WITH 400 CPM READING OR OVER) TO THE TEMPORARY BURIAL PIT STILL CONTINUES.

THE MULCHING AND WATER OF THIS VEGETATION IS PROGRESSING WELL.

SITE NO. 3 INFO TO FOLLOW: HAULING OF CAN AND VEGETATION (WITH LESS THAN 400 CPM READINGS) TO THE BURNING AREA IN THE DRY RIVER BED IS PROGRESSING SATISFACTORILY. THE HAULING AND BURNING OPERATION SHOULD BE COMPLETED BY 26 FEB. THE PLOWING OF FIELDS WHERE VEGETATION WAS REMOVED IS APPROXIMATELY 75 PERCENT COMPLETED.

P-3



2-6-5316

NNNN

PAGE 3 RUTQBN 6A [REDACTED]

SITE NO. INFO TO FOLLOW: DECONTAMINATION ACTIONS ARE COMPLETED IN THIS AREA. THE FINAL ACCEPTANCE FORMS ARE BEING PREPARED FOR JOINT USAF AND SPANISH SIGNATURES.

MISCELLANEOUS: CAMP MONITORING AND SAMPLING RESULTS CONTINUE TO BE NEGATIVE. THE OPERATION OF THE DECONTAMINATION SHOWER AT SITE NO. 3 CONTINUES TO BE SATISFACTORY. WATERING OPERATIONS AS A DUST PREVENTIVE CONTINUE TO BE EFFECTIVE. THE CONTROL CENTER FOR MONITORING OF DEPARTING PERSONNEL AND EQUIPMENT CONTINUES TO FUNCTION EFFECTIVELY.

AIR SAMPLING RESULTS ARE NEGATIVE.

CLAIMS: THRU 1200 HOURS 22 FEB

CLAIMS PAID: 14

AMOUNT PAID \$2,877.74

EMERGENCY PAYMENTS: 139

AMOUNT OF EMERGENCY PAYMENTS: \$8,964.83

G. NO CHANGE

H. NO CHANGE

I. NO CHANGE

J. NO CHANGE

J. NO CHANGE

K. SEE "F" ABOVE

L. NO CHANGE

2-6-5316

2-4

EC-101-1000

PAGE 4 RUQBN SA

~~SECRET~~

M. NO CHANGE

N. NO CHANGE

O. A. B. BRUBAKER, CAPT, HQ 16AF, DMAE, EX 3003, TORREJON AB, SPAIN

THIS REPORT SUBMITTED FROM THE ACCIDENT SIE. GP-1.

B

p-5

~~SECRET~~

2-6-5316

~~SECRET~~
~~SECRET~~

Feb

ZNY SSSSS ZOV RUEF
EUL124VV EUG357 CEB2S0

FP RUEFWZ

DE RUIQBN 6A 0511630Z

ZNY SSSSS

P 201115Z FEB 66

FM 16AF ADVON

PRIORITY

TO RUEKDA/SECRETARY OF DEFENSE
RUEAHQ/CSAF USAF
RUWMFNA/DIRNUG SFTY KIRTLAND AFB NM
RUWHNF/DEP INSPSFTY NORTON AFB CALIF
RUCSC/SAC OFFUTT AFB NEBR
RUCVAA/2AF BARKSDALE AFB LA
RUETHB/8AF WESTOVER AFB MASS
RUTQBNA/16AF TORREJON AB SPAIN
RUCVHU/42ND AIR DIV BLYTHVILLE AFB ARK
RUETSR/822ND AIRDIV TURNER AFB GA
RUCVHU/97BW BLYTHEVILLE AFB ARK
RUETFKK/68TH BW SEYMOUR JOHNSON AFB NC
RUEBBA/AFSC ANDREWS AFB MD
RUCDSQ/ AFLC WPAFB
RUWGNH/SAAMA KELLY AFB TEXAS
RUWMFNA/AFSWC KIRTLAND AFB NM
RUWHHL/OCAMA HILL AFB UTAH
RUWGNK/OCAMA TINKER AFB OKLA
RUWTBTA/DAD ATB EGLIN AFB FLA

ACTION	INFO
<i>OP-7,8,9</i>	<i>SE-10</i>
	<i>TG-11,12</i>
	<i>DV-13,14,15</i>
	<i>AM-16</i>

~~SECRET~~
~~SECRET~~

INFO RUCVSK/SAC OTSL CARSWELL AFB TEX
RUFPEWL/USAFE CP

PI
R
U

~~RESTRICTED DATA~~

~~SECRET~~

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~~SECRET~~

2-6-5112

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UNP DISCREP

~~SECRET~~
~~SECRET~~

10701660923

24 out of 16 EC
11 FEB 66
PAGE

~~SECRET~~ ~~TOP SECRET~~

NETVZ/FC DASA SANDIA AFB NM

RUTHBH/CHIEF JUSMAG SPAIN

BT

~~SECRET~~ ~~RESTRICTED~~ ~~DATA~~ C00294 FEB 66.

SUBJECT: SUPPLEMENTAL REPORT NO19 (ADV ON) OF NUCLEAR ACCIDENT

(BROKEN ARROW), SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS, AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF, 42, 822 AD (DO, DM, DS); 68 AND 97 BW (DC O, DCM, DS); SCIZ; MCASS; SWVN; OOYS; JUSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES ADDITIONAL OR

CORRECTED INFO TO REPTS FROM 16AF ADV ON SEC RET/RD MESGS C00010, 23 JAN 66; C 0028, 24 JAN 66; C0034, 25 JAN 66; C00041, 26 JAN 66; C 00054, 27 JAN 66; C 00066, 28 JAN 66; C00080, 29 JAN 66; C 00085, 30 JAN 66; C 00098, 31 JAN 66; C 00111, 1 FEB 66; C00123, 2 FEB 66;

P2 - ~~SECRET~~ ~~TOP SECRET~~

2-6-5112

PAGE 2 RUIQBN 6A [REDACTED] [REDACTED] [REDACTED] RESTRICTED [REDACTED]
C 00134, 3 FEB 66; C 00149, 4 FEB 66; C 00160, 5 FEB 66. C 00174, 7
2-6-3308 2-6-3458 2-6-3570 2-6-3646
FEB 66; C 00193, 9 FEB 66; C 00209, 12 FEB 66; C 00227, 16 FEB 66;
1-6-3895 2-6-4170 2-6-4679
20 FEB 66. THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR 127-4.

GP 1.

- A. NO CHANGE.
- B. NO CHANGE. WEAPON NBR 4, MK28Y1, MOD 2 SERIAL NUMBER 45345, HAS NOT BEEN FOUND.
- C. NO CHANGE
- D. NO CHANGE.
- E. NO CHANGE
- F. THE SEARCH FOR WEAPON NBR 4 STILL CONTINUES.

SITE NBR 2 INFO TO FOLLOW: DAILY WATERING OF VEGETATION IN TEMPORARY DISPOSAL PIT CONTINUES. WETTING DOWN OF CONTAMINATE SOIL PILES ALSO CONTINUES. WATERING EFFORTS TO CONTROL AND PREVENT DUST ARE EFFECTIVE. REFLAGGING THE ZERO CPM LINE WAS ACCOMPLISHED USING GREEN CLOTH, THE GREEN COLORED CLOTH IS A MORE ACCETABLE CONFIDENCE FACTOR TO THE LOCAL SPANISH.

SITE NBR 3 INFO TO FOLLOW: THE BURNING OF CONTAMINATED (400 CPM OR LESS) VEGETATION AND CANE IN THE DRY RIVE BED IS ACCOMPLSHSED EACH EVENING. DURING A NORMAL DAY'S OPERATION APPROXIMATELY 140 TRUCK LOADS ARE PROCESSED.

P3

[REDACTED] [REDACTED] [REDACTED]
2-6-5112

~~SECRET~~

PAGE 2 RUTQBN DIA ~~SECRET~~

1 FEB 66; CDD ²⁻⁶⁻³¹⁸⁵ 123, 2 FEB 66; 3 FEB 66. THIS RPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR WQWUARM

- A. NO CHANGE.
- B. NO CHANGE. NUMBER 4 WEAPON, MK 28Y1, MOD 2, SERIAL NUMBER ²⁴⁵³⁰⁵ HAS NOT BEEN FOUND.
- C. NO CHANGE.
- D. NO CHANGE.
- E. NO CHANGE.
- F. INTENSIVE SEARCH STILL CONTINUES FOR WEAPON NUMBER 4.

MAJOR APOSTALON AND SMSGT FRIEND HAVE DEPARTED ACCIDENT SITE TO TORREJON AIR BASE FOR SUBSEQUENT TRANSPORT TO CQUS.

DAILY MEETINGS WITH SPANISH NEC PERSONNEL: BASIC AGREEMENT ON THE CONSTRUCTION OF THE BURIAL PIT HAS BEEN ACCOMPLISHED, IE 1 1/2 MM LEAD LINED ON TOP AND BOTTOM AND 2 1/2 MM LEAD LINED ON SIDES. ROOF WILL BE OF SELF SUPPORTING CONCRETE OF APPROXIMATELY 15 INCH THICKNESS.

THE SPANISH NEC PERSONNEL ARE CONDUCTING AN INVESTIGATION AND TESTS ON THE CAUSE OF SEVERAL THOUSAND BEES, TEST SHALL ALSO BE MADE ON THE BEE HIVES AND HONEY. FURTHER RESULTS WHEN AVAILABLE.

P-4

~~SECRET~~ ATOMIC ENERGY ACT 1954

2-6-3308

~~SECRET~~

PAGE 3 ROT (SN BYA) [REDACTED] 1954

TODAY USAF PERSONNEL ARE REMOVING THE WATER FROM THE SCHOOL'S DRINKING WATER CISTERN, THE CISTERN SHALL BE CLEANED AND THE WATER SHALL BE REPLACED WITH POTABLE WATER.

SITE 2 INFO FOLLOWS: ARMY MINE-SWEE TEAM CONTINUING WORK, RESULTS OF THEIR CLEAN-UP OF SMALL DEBRIS IS NOTEWORTHY. DURING GRADING AND BULLDOZING OPERATIONS, WATERING FOR DUST CONTROL AND AIR SAMPLING ARE PERFORMED. NINE SAMPLES TAKEN AND RESULTS ARE ALL NEGATIVE.

THE 7,000 CPM LINE HAS BEEN ESTABLISHED AND MAPPED. CROP REMOVAL HAS COMMENCED.

TRUCKS EQUIPPED WITH LARGE ENCLOSED PLYWOOD BOXES HAVE BEGUN MOVING VEGETATION FROM CLEARED FIELDS TO LIME PIT. (AFTER CONSTRUCTION OF BURIAL PIT IS COMPLETED THIS VEGETATION WILL BE REMOVED FROM THE LIME PIT AND PLACED IN THE BURIAL PIT).

SITE 3 INFO FOLLOWS: CROP CLEARING OPERATION IS CONTINUING. PLOTS ARE BEING SELECTED FOR WATERING, PLOWING AND RECONTORING OPERATIONS.

VILLAGE: THE VILLAGE OF PALOMARES HAS BEEN REDESIGNATED SITE 5.

ALL REFERENCE TO PALOMARES HERE AFTER WILL BE TERMED SITE 5. USAF

AND NEC MONITORING OF SITE 5 IS COMPLETED.

2-6-3308

P-5

[REDACTED]

1954

3

PAGE 4 RUTQB

~~SECRET~~
CAMP AREA: CAMP AREA AND EQUIPMENT MONITORING WAS ACCOMPLISHED WITH NEGATIVE RESULTS. SEA WATER SAMPLE RESULTS WERE NEGATIVE. CLAIMS: EMERGENCY CLAIMS PAID ON WW FEB 66, 2 CLAIMANTS WERE PAID \$466.67. TOTAL CLAIMANTS TO DATE 79, TOTAL AMOUNT CLAIMS PAID TO DATE \$311,100.84

G. NO CHANGE.

H. NO CHANGE

I. NO CHANGE.

J. NO CHANGE

K. SEE "F" ABOVE.

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE.

A.B. BRUZAKER, CAPTAIN, HQ 16AF, DM4E, EXT 3003, TORREJON AB, PAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

BT

~~SECRET~~

2-6-3308

NNNN

PRIORITY

NNNNPUA335VV TUA642PQA736

3 FEB 66 22

ACTION

INFO

PP RUWPUJ

DE RUWPQA 195C 0342030

ZNY SSSSS

P 032021Z

FM W F WHITE USAEC ALBUQUERQUE NMEX

TO RUT 0816AF TORREJON AB SPAIN ATTN ADV ON PASS TO RC MAYDEV

/SERIES C/

OP-7,8,9
SE-10
TG-11,12
DV-13,14,15
AM-16

INFO RUWFNA/DNS KIRTLAND AFB NMEX/SERIES D/

RUJXG/LCDR G HEDRICK DMA USAEC WASHDC/SERIES E/

RUWPUJ/LCOL CARL JOHNSON NACC FC/DASA SANDIAB/SERIES F/

RUWPAJ/FRANK DUNN LASI TCB ALAMOS NMEX/SERIES G/

RUWPRS/W BARTON S MOORE SANDIA CORP ALBUQ NMEX/SERIES H/

ADC

BT

THIS DOCUMENT CONSISTS OF 7 PAGES

RE: ANALYSIS OF ACFT COLLISION NEAR VERA, SPAIN BY SANDIA CORP TEAMS (MESSAGE 5). REF: SRD MSG, 1 FEB 0900

FROM: R BARTON, SANDIA CORP, 9320.

TO: RC MAYDEV, SANDIA CORP, FROM W R BARTON AND W N CAUDLE. THIS MESSAGE IN FIVE PARTS.

PART 1: OUR ASSUMPTIONS, BASED ON YOUR MSG OF 1 FEB. (1) SECONDARY REMAINED INTACT DURING IMPACT. (2) THERE WAS NO HE DETONATION WITH SECONDARY IMPACT. (3) SLAG PILES ARE MORE THAN 20 YEARS OLD. (4) ANY SAND NOT ON THE BEACH IS DRY. (5) CALICHE IS LIGHTLY CEMENTED, LIKE MESA SOIL IN ALBUQUERQUE. (6) LOAM MEANS AN

2-6-3357
Discrep

PAGE TWO RUWPGA 195C [REDACTED]

IRRIGATED AND PLOWED FIELD. PART II: CRATER INFORMATION. IN SLAG AND TAILING PILES, NOSE-ON CRATER WILL BE LESS THAN 3 FEET ACROSS AND MAY BE INVISIBLE IF ON SLOPE OF PILE. LENGTHWISE CRATER WILL BE LESS THAN 8 FEET ACROSS.

CRATER ON SLAG OR TAILING PILE SHOULD BE DARKER THAN SURFACE OF PILE, AND YOU SHOULD SEE THROWOUT RAYS OF DARKER MATERIAL. THERE PROBABLY WILL BE NO READILY VISIBLE CRATER LIP. IN DRY SAND NOSE-ON CRATER SHOULD BE ABOUT 3 FEET ACROSS; LENGTHWISE CRATER ABOUT 8 FEET ACROSS. CRATER SLOPES WILL BE VERY FLAT, LESS THAN 20 DEGREES AND WILL PROBABLY HAVE NO READILY VISIBLE CRATER LIP OR THROWOUT RAYS. CRATER ON SANDY BEACH WILL SURELY BE DISTORTED AND LIKELY DESTROYED BY TIDES. CRATER IN CALICHE WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL PROBABLY BE 30 TO 40 DEGREES. FALLBACK AND THROWOUT IN AND AROUND CRATER SHOULD BE CHUNKY. YOU MAY BE ABLE TO SEE THGOWOUT RAYS AND PEGHAPS RADIATING CRACKS CLOSE TO CRATER. VRATER IN LOAM WILL BE LESS THAN 3 FEET ACROSS FOR NOSE-ON IMPACT AND LESS THAN 8 FEET ACCROSS FOR LENGTHWISE IMPACT. CRATER SLOPES WILL BE ABOUT 20 TO 30 DEGREES.

IF LOAM IS MOIST, CRATER WILL BE SMALLER AND THE SLOPES STEEPER

P2 [REDACTED]

2-6-3357 [REDACTED]

~~SECRET~~

PRIORITY

~~SECRET~~

8 FEB 66 00 07

PUA978TUA373QTC523

ACTION

INFO

PP RUWPUJ

DE RUTQCS 1134 0382135

ZNY SSSSS

IBT

OP-7,8 | SE-9
TG-10,11
OV-12,13,14
AM-15

S E C R E T RD SVC ZUI RUWPQS ;3S 0381840 X ALSO TO RUWPUJ X

AZDK RUTQBN 002A 0380931 P 070805Z

PP RUWPQS RUWPQJ

DE RUTQBN 002A 0380931

ZNY SSSSS

P 070805Z FEB 66

FM ISAF ADVON SPA IN

TO RUEPXG/AEC WASH DC

IRUWPGA/AEC ALQ ALBUQ NMEX

RUWPQS/SANDIA CORP ALBUQ NMEX

RUWPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS NMEX

RUWMFNA/DIR OF NUCLEAR SAFETY KIRTLAND AFB NME

RUWPQS/FC DASA SANDIA BASE ALBUQ NMEX

BT P1

~~RESTRICTED DATA~~

~~THIS DOCUMENT CONTAINS RESTRICTED DATA~~

2-6-3670
WPN S DISCREP

~~SECRET~~

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

80/01/1/1

240-566-5000
PAGE 04

[REDACTED]

~~SECRET~~ C-00171 FEB 66. FOR DIRECTOR OF MILITARY APPLICATION, AEC WASH DC. FOR V.R. HOAGLAND, AND ORG 9320 SANDIA CORP, ALBUQ, NMEX. FROM AEC NUCLEAR WEAPON SAFETY TEAM: REFERENCE STATUS OF SEARCH OPERATION AT PALOMARES, SPAIN, ACCIDENT. THE SYSTEMY ANAYLISIS TEAM HAS COMPLETED THE IDENTIFICATION OF MOST PROBABLE IMPACT AREAS FOR WEAPON NO. 4 OR PARTS THEREOF. GROUND SEARCH OPERATIONS ARE TO BE INTENSIFIED BEGINNING MONDAY IN ANCURCULAR AREA 5000 FT IN RADIUS WHOSE MID POINT IS 37 DSGREES 49.65 MINUTES NORTH, 1 DEGREE 49.9 MINUTES WEST. SEA SEARCH OPERATIONS ARE TO BE ALIGNED ALONG THE 300 DEGREE AVARAGE WIND CORRIDORS WITH EMPHAUS

PAGE 2 RUTQBN 002A ~~SECRET RESTRICTED DATA~~

AT A POINT DETERMINED BY THE SPANISH FISHERMAN'S TESTIMONY. CONTINUING ASSISTANCE BY THE NUCLEAR WEAPON SAFETY TEAM WILL CONSIST OF LIAISON, VERIFIVATION OF PROMISING IMPACT CRATERS, AND IDENTIFICATION OF WEAPON PARTSNWHEN FOUND.

GP-1
BT

P-2

~~SECRET RESTRICTED DATA~~

2-6-3670

[REDACTED]

~~SECRET~~

~~SECRET~~ [REDACTED]

NNNNPUA438ZB816

OO RUWPUJ

Z DY SSSSS ZOV RUEPWZ

EUL138 EUM838CEC228

OO RUEPWZ

DE RUTQBN 008A 0401500

Z NY SSSSS

O 091400Z FEB 66

FM 16AF ADVON

9 FEB 66 18 36

IMMEDIATE

ACTION INFO

OP-78,9 SE-10

TG-11,12

DL-13,14,15

AM-16

Collected by Swann 1837

[REDACTED]

IMMEDIATE

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHQ/CSAF USAF

RUMFNA/DIR NUG SFTY KIRTLAND AFB NM

RUMHNF/DEP INSPSFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCMAA/HQ 2 AF BARKSDALE AFB LA

RUETBH/HQ 8 AF WESTOVER AFB MASS

RUTQBNA/HQ 16 AF TORREJON AB SPAIN

RUCWU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCWU/97 BW BLYTHEVILLE AFB ARK

RUETFX/68 BW SEYMOUR JOHNSON AFB NC

RUBBAA/AFSC ANDREWS AFB MD

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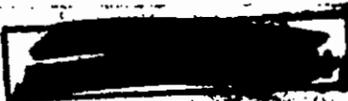
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p1

15/2

~~SECRET~~



DSQ/AFLC WFO

- RUWGNX/SAAMA KELLY AFB TEX
- RUWNA/AFSWC KIRTLAND AFB NM
- RUWHHL/OAMA HILL AFB UTAH
- RUWGNK/OAMA TINKER AFB OKLA
- RUWBTB/DA AFB EGLIN AFB FLA
- INFO RUPPBW/USAFE CP
- RUCVSK/SAC OTSL CARSWELL AFB TEX
- RUEPVZ/FC DASA SANDIA AFB NM
- RUTHBH/CHIEF JSMAG SPAIN

BT

~~SECRET~~ C-00193 FEB 66

SUBJ: SUPPLEMENTAL REPORT NO. 16 (ADVON) OF NUCLEAR ACCIDENT
 (BROKEN ARROW). SEC DEF FOR ASD (AE); CSAF AND AFIGO, AFIS,
 AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DQSD; 2, 8, 16AF,
 42, 822 AD (DO, DM, DS); 68 & OU BW (DCO, DCM, DS); SCIZ; MCASS;
 SWVN; JOYS; JSMAG FOR GEN DONOVAN; FC DASA. THIS CONSTITUTES
 ADDITIONAL OR CORRECTED INFO TO REPTS FROM 16AF ADVON SECRET/RD

- NR MSSS C0010, 23 JAN 66; C0028, 24 JAN 66; C 0034, 25 JAN 66;
- NR C 0041, 26 JAN 66; C 0054, 27 JAN 66; C 0056, 28 JAN 66;
- C 0080, 29 JAN 66; C 0085, 30 JAN 66; C 0088, 31 JAN 66;

~~SECRET~~

2-6-3895

PAGE 2 RUTQBN 008

SECRET
2-6-3089
C 00111, 1 FEB 66; C 00123, 2 FEB WYV C 00134, 3 FEB 66;
C 00145, 4 FEB 66; C 00160, 5 FEB 66; C 00174, 7 FEB 66; 9 FEB
66. THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4, AFR 127-4. GP-1

A. NO CHANGE

B. NO CHANGE. WEAPON NR. 4, MK28Y1, MOD 2, SERIAL NUMBER 45345, HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE SEARCH FOR WEAPON NR. 4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL, TWO FIELDS IN SITE NR. (PLOT NR 12 AND PLOT NR. 16) HAVE BEEN PLOWED AND MONITORED. MONITORING RESULTS WERE ZERO CPM, THE SPANISH NEC HAVE ACCEPTED THESE RESULTS, AND THE LAND WILL BE RETURNED TO THE SPANISH FARMERS FOR USE.

A VERBAL AGREEMENT HAS BEEN MADE WITH SPANISH NEC PERSONNEL ON THE DISPOSITION OF CONTAMINATED VEGETATION IE VEGETATION WITH READINGS OF LESS THAN 400 CPM WILL BE MULCHED AND DEPOSITED IN THE DRY RIVER BED. VEGETATION WITH READINGS IN EXCESS OF 400 CPM WILL BE MULCHED AND DEPOSITED IN THE TEMPORARY BURIAL PIT AT SITE NR. 2.

SITE NR. 2 INFO TO FOLLOW: SOIL SCRAPING OPERATIONS ARE CONTINUING

R3

SECRET

2-6-3089

PAGE 3 RUTQBN 008A

~~SECRET~~

IN THE 7000 CPM AND OVER AREA OF SITE NR. 2. CONTINUAL WATERING OF THE AREA BEING SCRAPED IS PERFORMED AS A DUST CONTROL. DETAILED MONITORING IS PERFORMED DAILY TO ASSURE THE SPECIFIC LOCATION OF THE 7000 CPM AND ZERO CPM LINES.

SITE NR. 3 INFO TO FOLLOW: REMONITORING TO RECONFIRM THE PREVIOUSLY ESTABLISHED 7000 CPM LINE WAS PERFORMED ON 7 FEB. ADDITIONAL 7000 CPM AREA WAS IDENTIFIED DURING THIS OPERATION, THIS AREA IS FARM LAND LOCATED TOWARD THE RIVER BED FROM SITE NR. 3. THE ADDITIONAL AREA IS A STRIP OF LAND 3600 FEET LONG AND 100 FEET WIDE (APPROX 9 1/2 ACRES) THIS IS IN ADDITION TO THE PREVIOUS ESTIMATE OF 1 1/2 ACRES. VEGETATION MULCHING OF CLEARED CROPS HAS BEGUN.

ALL CONTAMINATED SOIL HAS BEEN REMOVED FROM PLOT NR. 1 (GROUND ZERO) OF SITE NR. 3. DURING 7 & 8 FEB 42 TRUCK LOADS (APPROX 126 CUBIC YARDS) WERE REMOVED TO THE TEMPORARY DISPOSAL PIT AT SITE NR. 2. THE GRAND TOTAL OF SOIL REMOVAL IS 76 TRUCK LOADS (APPROX 228 CUBIC YARDS) SITE NR. 5 INFO TO FOLLOW: DECONTAMINATION OF THE SCHOOL CISTERN IS COMPLETE, THE CISTERN HAS BEEN REFILLED WITH POTABLE WATER.

THE CRITERIA FOR THE DECONTAMINATION OF HOUSES WITHIN SITE C. 5 WAS PREVIOUSLY REPORTED AS THOSE WHICH HAVE READINGS OF 7000 CPM OR GREATER. THIS IS AN ERROR. HOUSE WASHING (DECONTAMINATION) IS PERFORM-

24

~~SECRET~~

2-6-3895

FC/01660923

~~SECRET~~

INFO RUFFBWL/USAFE CP LINDSEY AS GER
RUCVSK/SAC OTSL CARSWELL AFB TEX
RUEPWZ//FC DASA SANDIA BASE NMEX
RUTHBH/CHIEF JUSMAG SPAIN

BT

~~SECRET~~ RECORDED DATA 40-00209 FEB 66.

SUBJ : SUPPLEMENTAL REPORT NO; 17 AKADVON) OF NUCLEAR ACCIDENT (BROKEN
ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS, AFSS-AE, AFINS;
SAC FOR GEN RYAN AND DO, DM, DOSD; 2, 8, 16AF, 42, 822AD, DO, DM, DS);
68 & 97 BW (DC D, DCM, DS); SCIZ; MCASS; SWN; IOYS; JUSMAG FOR GEN
DONOVAN; FC DASA. THIS CONSTITUTES ADDITIONAL OR CORRECTED INFO
TO REPTS FROM 16AF ADVON SEC RETRD MSGS C0010, 23 JAN 66; IC0028,
24 JAN 66; C0034, 25 JAN 66; C00041, 26 JAN 66; C00054, 27 JAN 66;
C00066, 28 JAN 66; C00080, 129 JAN 66; C00085, 30 JAN 66; C00098, R
31 JAN 66; C00111, 11 FEB 66; C00123, 2 FEB 66; C00134, BJ FEB 66; R

P. 2

~~SECRET~~

2-6-4170

PAGE 2 RUTQBN ~~SECRET~~ ~~APPROPRIATE~~
C00149, 4 FEB 66; C00160, 5 FEB 66; C00174, 7 FEB 66, C00193,
9 FEB 66; 12 FEB 66. THIS REPT COVERS REQUIREMENTS OF ATCHM'T 4,
AFR 127-4. GP-1

A. NO CHANGE.

B. NO CHANGE. WEAPON NO 4, IMK2861, MOD 2, SERIAL NUMBER 45345, HAS
NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE SEARCH FOR WEAPON NO4 STILL CONTINUES.

MEETING WITH SPANISH NEC PERSONNEL: THE WEDNESDAY AND THURSDAY
(9 AND 10 FEB) MEETINGS WITH THE SPANISH NEC PERSONNEL PRODUCED NO
SIGNIFICANT ACCOMPLISHMENTS. THE RELATIONSHIP BETWEEN USAF AND
SPANISH PERSONNEL ATTENDING THESE MEETINGS CONTINUES TO BE ONE OF
AMICABLE COOPERATION.

SITE 2 AND 3 INFORMATION TO FOLLOW: MONITORING IN SITES
2 AND 3 CONTINUED THROUGH 9 AND 10 FEB, THE ZERO AND 7000 CPMR
LINES HAVE BEEN ESTABLISHED AND ARE BEING PLOTTED ON PHOTOGRAPHIC
MAPS. WATERING OPERATIONS ARE CONTINUING FOR DUST CONTROL AND PREVENTION
SITE 5 INFO TO FOLLOW: JOINT USAF AND NEC MONITORING IN VILLAGE

P-3

~~SECRET~~ ~~APPROPRIATE~~

2-6-417

23

OF PLAMARES CONTINUES. FOUR HOUSES WERE DECONTAMINATED. PLOWING HAS BEGUN IN FIELDS WHERE VEGETATION HAS BEEN REMOVED.

MISCELLANEOUS: HIGH WINDS COMMENCED DURING THE AFTERNOON OF 10 FEB. DECONTAMINATION EFFORTS, PLOWING AND HAULING ACTIVITIES WERE HALTED. WATERING OPERATION CONTINUED THROUGHOUT THE AFTERNOON AND NIGHT. WIND VELOCITY WAS NORMALLY 30-40 KNOTS WITH GUSTS OF 62 KNOTS. AS OF 0800 HOURS, 11 FEB WINDS ARE STILL IN THE 25-35 KNOTS VELOCITY, PREDICTED DURATION OF ANOTHER 18 HOURS; WITH EXCEPTION OF WATERING AND SPRAYING OPERATION ALL DECONTAMINATION EFFORTS HAVE HALTED. PRESENTLY WE DO NOT KNOW IF HIGH WINDS HAVE SIGNIFICANTLY CHANGED THE ZERO OR 7000 CPM LINE.

CLAIMS: EMERGENCY PAYMENTS TO DATE HAVE BEEN MADE TO A TOTAL OF 120 CLAIMANTS FOR AN AMOUNT OF \$4900.00.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE "F" ABOVE.

L. NO CHANGE.

M. NO CHANGE.

N. NO CHANGE;

O. A.B. BRUBAKER, CAPTAIN, HQ 16AF, DM4E, EXT 3003, TORREJON AB, SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

BT
p. 4

[REDACTED]

2-6-4170

~~SECRET~~

~~RESTRICTED DATA~~

11 FEB 60 22 32

PRIORITY

NNNNPUA 994V TUA482PQA868

PP RUWPUJ

DE RUWPQA 240C 0422124

ZNY SSSSS

P 112110Z

~~SECRET~~

~~RESTRICTED DATA~~

FM USAEC ALBUQUERQUE NMEX

TO RUTQBN/16AF TORREJON AB SPAIN SERIES C

INFO RUEPXG/USAEC DMA WASHDC SERIES D

RUWMFNA/DNS KIRTLAND AFB ALBUQ. NMEX SERIES E

RUWPUJ/FC/DASA SANDIA BASE NMEX SERIES F

RUWPQL/LASL LOS ALAMOS NMEX SERIES G

RUWPQS/SANDIA CORPORATION ALBUQ. NMEX SERIES H

AEC

BT

~~RESTRICTED DATA (S-1)~~

FM W F WHITE FOR ADVON /ADVON PLS PASS TO R E REED SANDIA CORP/

INFO DMA FOR LCDR G HEDRICK, DASA ATTN JNACC ATTN LCOL CARL

JOHNSON, LASL ATTN FRANK DUNN, SANDIA CORP ATTN W BARTON ORG

9334. PLEASE CHECK WITH CAPT. BRUBAKER ON THE EXACT ORIENTATION

OF UNIT ONE BEFORE IT WAS DISTURBED. THIS SHOULD INCLUDE THE

POSITION OF THE 16 FOOT CHUTE. PAR ALSO CHECK TO SEE IF THERE

WERE ANY PIECES OF FINS AT THE IMPACT POINT OF UNITS TWO AND

THREE. END REF WDS:FW (S-181)

BT

ACTION INFO

OP-7,8

SE-9

TG-10,11

DV-12,13,14

AM-15

~~RESTRICTED DATA~~

~~THIS DOCUMENT CONTAINS RESTRICTED DATA~~

~~SECRET~~

ATOMIC ENERGY ACT 1954

2-6-4190

W PMS DISCRET

THIS DOCUMENT CONTAINS RESTRICTED DATA

11 OF 15 COPIES

~~SECRET~~
PUA 197WZB920

PP RUWPUJ

ZNY SSSSS ZOV RUEPWZ

ZCZCEUL283 EUG42 IRED558

PP RUEPWZ

DE RUQTBN 4Q 0431317

ZNY SSSSS

P 121115Z FEB 66

FM 16.TH AF ADVON SPAIN

TO RUWPGA/USAFE ALBUQUERQUE NMEX

RUEJPFN/USUJRVWASHDC

RUWPGS/SANDIA CORP ALBUQUERQUE NMEX

RUWPQL/DIR LOS ALAMOS SCIENTIFIC LUN LOS ALAMOS NMEX

RUWFNA/DIRECTORATE OF NECLAR SAFETY KIRTLAND AFB NMEX

RUEPWZ/FC DASA SANDIA AFB NMEX

BT

~~SECRET~~ C-00217. FEB 66. FOR: W. F. WHITE USAEC 1

ALBUQUERQUE; LCDR HEDRICK USAEC WASHINGTON; W. R. HOAAIVND 1544 AND

R. C. MAYDEW 9320 SANDIA CORP; FC/DSA SANDIA. REFUR

2-6-4190
TWX DTG 112110Z. PHOTOS AND TESTIMONY REWATING TO UNIT ONE INDICATE

INTACT UNIT STRUCK THE SIDE OF SANDY CLAY BANK IN NEAR VERTICAL

POSITION. IT IS THEORIZED ZYAT UNIT SLAPPED THE BANK AND THEN

FELL BACK AWAY FROM THE BANK, EXPOSING DAMAGED SIDE OF NOS. THERE

WAS A LONGITUDINAL RIP IN THE SHAPE COMPONENT OF THE SAME SIDE

AS THE NOSE DAMAGE. THREE OF THE FOUR FINS WERE MISSING AND

HAVYRNOT BEEN FOUND. THE REMAINING FIN IS ORIENTED TOP LEFT OF A LINE

~~SECRET~~ 2-6-4286
THIS DOCUMENT CONTAINS INFORMATION OF A CONFIDENTIAL NATURE
NO DISSEMINATION TO BE MADE WITHOUT AUTHORITY

~~SECRET~~

PRIORITY

ACTION	INFO
	SE-9
	TG-10, 11
	DV-12, 13, 14
	AM-15

OP-7, 8

~~RESTRICTED DATA~~

~~SECRET~~

~~THIS DOCUMENT CONTAINS INFORMATION OF A CONFIDENTIAL NATURE~~

~~NO DISSEMINATION TO BE MADE WITHOUT AUTHORITY~~

PAGE 2 RUTGBN 4A

~~SECRET~~

THRU THE LUGS AND HAD CRACKS AT EACH FOOT. THE BANK AT THE IMPACT LOCATION IS ORIENTED ALONG A 300 DEGREE MAGNETIC LINE AND IS ABOUT 10 FEET HIGH. THE FINAL POSIOMON OF THE UNIT WAS WITH NOSE POINTING IN A 280 DEGREE MAGNETIC DIRECTION. THE MAGNETIC VARIATION IN THIS AREA VARIES BETWEEN 7 AND 8 DEGREES WEST. THE RSP BEGAN ABOUT 1815 HOURS ON 17 JANUARY AND CAPT BRUBAKER REMEMBERS ONLY LIGHT SURFACE WINDS. THE CHUTE WAS DRAPED OVER THE WEAPON AS IF PROTECTED FROM WIND BY THE BANK. CANNOT DETERMINE IF PIECES OF FINS WERE FOUND AT IMPACT POINT OF UNITS TWO AND THREE. IF TEY WERE FOUND THEY WOULD BE INCLUDED IN MATERIAL RETURNED TO PANTEX. EXAMINATION OF PHOTOS REVEALS BOTH UNITS TWO AND THREE WERE RECOVERED WITH TWO COMPLETE FINS ON EACH UNIT. GP-1

BT

~~SECRET~~

P2

2-6-4286

PP RUMPUJ

RE ROTQBN 207A 0451225

~~SECRET~~

ATOMIC ENERGY ACT 1954

ZNY 3355

P 141040L

~~SECRET~~

~~SECRET~~
GRADING, DOD DIR 5200.10

FM USAF ADVON SPAIN

~~DOES NOT APPLY~~

ACTION

INFO

OP-7,8

SE-
TG-10,
DV-12,
AM-15

RO RUMPGA/USSEC ALBUERQUE NM

RUEPXG/USAECD WASHINGTON DC

RUMPGS/SANDIA CORP ALBUQUERQUE NM

RUEPCL/LASL LOS ALAMOS NM

RUMFNAY/DIRECTORATE OF NUCLEAR SAFETY KIRTLAND AFB NM

RUMPUJ/FC DASA ALBUQUERQUE NM

~~SECRET~~

BT

~~SECRET~~ 02234. FOR W.F. WHITE USAEC ALBUQUERQUE; LCDR

HEDRICK USAED WASHINGTON DC; W.R. HOWLAND 1544 SANDIA CORP;

R.C. MAYDEW 9320 SANDIA VRP; DIRECTOR LASL LOS ALAMOS NM; LT COL

CARL JOHNSON FC/DASA. STATUS REPORT FROM AEC NUCLEAR SAFETY TEAM.

SEARCH EFFORTS HAVE BEEN CONCENTRATED IN PROBABLE LAND IMPACT AREA.

TWENTY-THREE CRATERS, WELLS AND MINE SHAFTS HAVE BEEN CULLED TO

FOUR CRATERS, THREE MINE SHAFTS AND SIX WELLS WHICH REQUIRE FURTHER

DETAILED INVESTIGATION. HIGH WINDS AND CHUFFY WATERS HAVE CURTAILED

NAVY OPERATIONS AND RESTRICTED HELICOPTER FLIGHTS. ONE AREA OF

REPORTED CONTAMINATION WITHIN THE IMPACT AREA WAS RECHECKED AND

~~RESTRICTED DATA~~

ATOMIC ENERGY ACT 1954

~~SECRET~~

ELIMINATED. IT WAS LEARNED THAT FAILURE OF TWO PAC-15 INSTANTS

LED TO THE ERRONEOUS REPORT. DEBRIS RECOVERED IN SHALLOW WATER BY

NAVY HAS BEEN INSPECTED FOR WEAPON PARTS AND PIECES WITH NEGATIVE

~~SECRET~~

2-6-4344
WPN deep

~~SECRET~~

RUWGNK/OCAMA TINKER AFB OKLA

RUWTBIA/DAD (ATB) EGLIN AFB FLA

INFO RUFPKS/USAFE CP

RUCVSK/SAC OTSL CARSWELL AFB TEXAS

RUEPWZ/FM DASA SANDIA BASE N M

RUTHBW/CHIEF JUS MAG SPAIN

BT

~~RESTRICTED DATA/C-00123 FEB 66.~~

SUBJ: SUPPLEMENTAL REPORT NO. 11(ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFIGO, AFIIS,
AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO,DM, DOSD; 2, 8, 16AF,
42, 822AD (DO,DM,DS); 68 & 97BW (DCO,DCM,DS); SCIZ; MCASS;
SWVN: OOYS; JUSMAG FOR GEN DONOVAN. THIS CONSTITUTES ADDITIONAL
OR-CORRECTED INFO TO RPTS FROM 16 AF ADVON SECRET/ED MSGS C0010,
23 JAN 66; C0028, 24 JAN 66; C00034, 25 JAN 66; C00041, 26 JAN 66;
C00054, 27 JAN ; C00066, 28 --, 66; C00030, 29 JAN 66; C00085, 30 JAN
66; C0098, 31 JAN 66; C00111, 1 FEB 66. THIS REPT COVERS

P-2

~~SECRET~~

2-6-3185

PAGE 2 RUT QSN 01A ~~SECRET~~
REQUIREMENTS OF ATCHM'T 4, AFR 127-4.

A. NO CHANGE.

B. NO CHANGE. NUMBER 4 WEAPON, MK 23Y1, MOD 2, SERIAL NUMBER
HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE INTENSIVE SEARCH FOR WEAPON NUMBER 4 STILL CONTINUES.

COLONEL RHODES, COLONEL NORCROSS AND CAPT MCKINNY HAVE DEPARTED
THE ACCIDENT SITE FOR TORREJON AIR BASE, AND SUBSEQUENTLY TO COMUS.

DAILY MEETINGS WITH THE SPANISH NEC PERSONNEL ARE STILL
CONTINUING. THE TECHNICAL SPECIFICATIONS AND CONSTRUCTION OF THE BURIAL
PIT WERE THE PRIME SUBJECT OF THE MEETING. THE MULCHING (GRINDING)
OF CROPS AND VEGETABLE MATTER PRIOR TO PUTTING IT INTO THE PIT
WAS ALSO DISCUSSED. MEETINGS ARE PROGRESSING WELL, ACCOMPLISHMENTS
ARE SLOW BUT STEAD.

WEAPON 2 INFO TO FOLLOW: THE ZERO CONTAMINATION LINE HAS BEEN
FLAGGED. SCRAPING OPERATIONS ARE CONTINUING, MONITORING OF SCRAPED
AREAS GAVE ZERO READINGS. WATERING OF AREA CONTINUES. ARMY
MIANE-SWEEP TEAM AND GRADER OPERATOR ARE MONITORED DAILY AND

P-3

~~SECRET~~
2-6-3185

PAGE 3 RUIQBN

~~SECRET~~ [REDACTED]

DECONTAMINATED AS NECESSARY.

WEAPON 3 INFO TO FOLLOW: TWENTY-THREE ADDITIONAL FIELDS WERE MONITORED, CLEARED AND REMONITORED. AIR SAMPLES WERE TAKEN SIMULTANEOUSLY WITH THE CORP CLEARING OPERATION. AIR SAMPLES WERE ESSENTIALLY NEGATIVE. ALL PERSONNEL (CORP CLEARERS AND MONITORS) WERE PROCESSED THROUGH THE DECONTAMINATION CENTER AT THE SITE.

MONITORING OF THE CAMP SITE PROVED NEGATIVE. TWENTY-THREE (23) PERSONNEL AND THE HEAVILY TRAFFICED AREAS OF THE CAMPSITE WERE MONITORED (MESS HALL, SUPPLY TENT, SHOWER AREA) WITH NEGATIVE RESULTS. SEA WATER SAMPLE TAKEN GAVE NEGATIVE RESULTS.

VILLAGE: USAF PERSONNEL CONTINUED ASSISTING THE SPANISH NED IN MONITORING OF THE VILLAGE OF PALOMARES. REMONITORING OF PREVIOUSLY WASHED BUILDING SHOW SUBSTANTIAL DROPS IN CONTAMINATION. MONITORING OF SOME BUILDINGS IN THE PUEBLO OF VILLARICS WAS COMENCED.

CLAIMS: EMERGENCY CLAIMS PAID ON 1 FEB 76, 5 CLAIMANTS FOR A TOTAL OF \$138.67. THE TOTAL OF EMERGENCY CLAIMANTS HANDLED TO DATE IS 77. THE TOTAL AMOUNT PAID IS \$3222.17 (YESTERDAY'S REPORT STATED \$4000. THIS IS AN ARITHMETICAL ERROR.) THE ABOVE MENTIONED EMERGENCY CLAIMS ARE MADE ON THE FOLLOWING: 1. BASIC NECESSITIES

10-4

[REDACTED]

2-6-3185

~~SECRET~~

PAGE 4 RUTQBN

OF LIFE AND 2. FEED FOR LIVESTOCK. ESTIMATE OF POTENTIAL CLAIMANTS
REMAIN AT 600, WITH THE POSSIBLE PAYMENT OF \$100,000

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANG.

K. SEE "F" ABOVE.

L. NO CHANGE

M. NO CHANGE.

, NO CHANGE.

O. A.3. BRUBAKER, CAPTAIN, HQ 16AF, DM4E, EXT 3003, TORREJON AB,
SPAIN. THIS REPORT SUBMITTED FROM THE ACCIDENT SITE. GP-1

~~SECRET~~

2-6-3185

P 02235 0Z

FM USAEC WALTER F WHITE ALBUQUERQUE NMEX

LOCATION INFO

OP 718

SE-9

TO RUTQBN/16AF ATTN ADVON PLS PASS TO R C MAYDEW & DAVID

HART
TG-10,11
OV-12,13,14
AM-15

TORREJON AB SPAIN SERIES C

INFO RUWMFNA/DNS KIRTLAND AFB ALBUQUERQUE NMEX SERIES D

RU2PXG/USAEC ATTN LCDR G. HEDRICK DMA WASHDC SERIES E

RUWPUJ/FC/DASA ATTN: JNACC, LCOL CARL JOHNSON SANDIAB ALBUQ NMEX SERIES F

RUWPQL/LASL ATTN FRANK DUNN LOS ALAMOS NMEX SERIES G

RUWPQS/SANDIA CORP ATTN W. BARTON ORG. 9334 SANDIAB ALBUQ NMEX SERIES H

RUWPQS/SANDIA CORP ATTN S. MOORE ORG. 1540 SANDIAB ALBUQ NMEX SERIES I

AEC

BT

PRIORITY

[REDACTED]

[REDACTED] 4

[REDACTED] 4

UNRESTRICTED DATA/GP-1//. PART I FOR MR. MAYDEW. RE: ANALYSIS OF AIRPLANE COLLISION NEAR VERA, SPAIN BY SANDIA CORPORATION TEAM (MESSAGE 1). REF: (1) SRD MSG, 30 JANUARY 1515 ZEBRA TO RUWPQS/R.

R. BARTON, 9320, SANDIA CORP., ALB., NM, FM R. C. MAYDEW, S. V. ASSELIN 16AF ADVON, SPAIN; (2) SRD MSG, 31 JANUARY 0825 ZEBRA TO ARWPGS/SANDIA CORP. .B., NM, ATTN: W. R. BARTON, SA. MOORE FM 16AF ADVON SPAIN R.C. MAYDEW, S. V. ASSELIN; (3) SRD MSG, 31 JANUARY 1030 ZEBRA TO RUWPQS/W.

R. BARTON, 9320, SANDIA CORP, ALB., NM, FM 16AF ADVON SPAIN, R. C. MAYDEW

S. V. ASSELIN; (4) SRD MSG, 1 FEBRUARY 0900 ZEBRA TO RUWPQA/USAEC, ALB., N.M., FOR W. R. BARTON, SANDIA CORP., 9320, FM 16AF ADVON SPAIN. FREE

2-6-3268

PAGE TWO RUWPQA 189C

[REDACTED]

FALL TRAJECTORIES FOR UNIT NO. 2 ASSUMING 256 DEG. GROUND TRACK AND RELEASE GROUND SPEED OF 615 FPS INDICATE THAT THE RELEASE POINT WAS ON AN AZIMUTH OF 74 DEGREE 45 FT. AT A RANGE OF 22,710 FT. UNIT 2 LOCATION. TRAJECTORY FOR UNIT 3 ASSUMING A STREAMING 16-FT. PARACHUTE, 256 DEG. GROUND TRACK AND A RELEASE SPEED OF 615 FPS INDICATES RELEASE POINT TO BE ON AN AZIMUTH OF 72 DEGREE 0 FT. AND A RANGE OF 21,420 FT. FROM UNIT 2 LOCATION. DUE TO THE DISTANCE BETWEEN THE TWO INDICATED RELEASE POINTS, TRAJECTORIES WERE RUN FOR UNITS 2 AND 3 ASSUMING 515 FPS RELEASE VELOCITIES. IN MAPPING THE INDICATED RELEASE POINTS FROM ALL OF THE TRAJECTORIES, A CONVERGENCE TOWARD THE 515 FPS RELEASE SPEED WAS INDICATED. USING THIS INFORMATION, A NEW RELEASE POINT FOR ALL UNITS WAS DETERMINED TO BE ON AN AZIMUTH OF 73 DEGREE 15 FT. AT A RANGE OF 18,950 FROM UNIT 2 LOCATION. THIS POINT WAS USED AS THE REFERENCE POINT FOR ALL SUBSEQUENT TRAJECTORIES. THIS POINT IS APPROXIMATELY 37 DEGREES 15.55 MINUTES NORTH LATITUDE AND 1 DEGREE 45.0 MINUTES WEST LONGITUDE.

ASSUMING UNIT 1 FREE FELL TO 18,000 FEET THEN DEPLOYED THE 16-FT. CHUTE, THE IMPACT POINT AGREES TO WITHIN 1700 FEET. ASSUMING THE TAIL COVER OF UNIT 4 CAME OFF AT RELEASE POINT, IT IS CARRIED BY THE WIND TO AN IMPACT POINT AT LEAST 2 MILES FROM SHORE IN THE WATER. IS IT POSSIBLE THAT THIS TAIL COVER MAY HAVE BEEN CARRIED IN TO SHORE AS PART OF THE 52 WRECKAGE?

P2

[REDACTED] 2-6-3268

PAGE THREE RUWPGA 189C [REDACTED]

ALLOWING UNIT 4 TO FREE FALL FOR 5, 10, AND 15 SECONDS AND ASSUMING SOME FORM OF DETONATION AT THOSE POINTS, THE 16-FT. PARACHUTE WITH 500 POUNDS ATTACHED IMPACT ON AZIMUTHS OF 97 DEGREE 15 FT., 97 DEGREE 45 FT. AND RANGES OF 39,300, 35,900, AND 31,900 FEET, RESPECTIVELY FROM UNIT 2. THE TRAJECTORIES OF THE SECONDARY FROM THE ASSUMED DETONATION POINTS GIVES APPROXIMATE IMPACT LOCATIONS ON AZIMUTHS OF 355, 326,

AND 308 DEGREES AND RANGES OF 350, 400, AND 500 FEET, RESPECTIVELY FROM UNIT 2. ASSUMING THE 16-FT. CHUTE CAME OUT ON UNIT 4 AT RELEASE POINT, THE IMPACT LOCATION WOULD BE ON AN AZIMUTH OF 89 DEGREE 45 FT. AND A RANGE OF 27,400 FEET FROM UNIT 2. ALL AZIMUTH FIGURES ARE GIVEN AS TRUE HEADINGS. IT WAS ASSUMED IN ALL TRAJECTORIES THAT THE ALTITUDE CHANGE FROM COLLISION POINT TO RELEASE POINT WOULD BE SMALL; THEREFORE, THE ALTITUDE AT RELEASE WAS ASSUMED TO BE 30,500 FEET. A NEW MAPPING OF THE MORE RECENT INFORMATION WILL FOLLOW. CAUDLE AND MC NEILL HAVE STARTED TO WORK ON THE DEPTH OF PENETRATION AND ENTRY HOLE CONDITIONS. WE PLAN TO REVIEW COL.

WIGBERT'S SL

DES TO DETERMINE MORE ABOUT THE TERRAIN. JUST RECEIVED TWO NEW MESSAGES WITH NEW INLAND COLLISION POINT AND ADDITIONAL TRAJECTORY REQUESTS. I AM STARTING IMMEDIATELY ON NEW CALCULATIONS. WE HOPE TO HAVE THESE COMPLETED IN 24 HOURS. CAN YOU SEND A DESCRIPTION OF THE DAMAGE TO THE 16-FOOT CHUTE OF UNIT 4, ESPECIALLY WITH REGARD TO VENT AND/OR

P3

[REDACTED] 6-326

PAGE FOUR RUMFQA 1890

SECRET
SKIRT BAND DAMAGE. PICTURES WOULD AID IF THIS IS POSSIBLE. THE CDS OF A FULLY OPENED, INTACT, 64-FOOT PARACHUTE IS 2400 SQ. FT. HOWEVER, IT SHOULD BE NOTED THAT IF THE 64-FOOT PARACHUTE COMES OUT UNDER THE CONDITIONS YOU HAVE DESCRIBED, IT WOULD EXPERIENCE EXTENSIVE DAMAGE.

PART II FOR D. HART. THANKS FOR YOUR LETTER. WILL IXW INFO RE POSSIBLE REPLACEMENT SATURDAY.

END REF WDS:PHS(S-146)

BT

94

SECRET
2-6-3268

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~~SECRET~~

3 FEB 66 16 08
called 1645Z
Swan

P UA248VV WZB616

VV WZB616

~~SECRET~~ ~~ATOMIC ENERGY~~

OO RUWPUJ

ZNY SSSSS ZOV RUEPWZ

IMMEDIATE

EUL839

OO RUEPWZ

ACTION	INFO
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ZNY SSSSS ZFD RUEAHQ

OP-78
SE-9
TG-10, 11
DV-12, 13, 14
AM-15

DZU19TV XDA334ANA096

OO RUEPWZ RUWGNH RUWGNK RUWHHL RUWHNF RUWMFNA

DE RUTQB

VV DZK918VV HQAVV HQA486

OO RUEPWZ RUWGNH RUWGNK RUWHHL RUWHNF RUWMFNA

ZNY SSSSS ZFD RUEAHQ

DZU19TV XDA334ANA096

OO RUEPWZ RUWGNH RUWGNK RUWHHL RUWHNF RUWMFNA

DE RUTQBN 01 0341220

ZNY SSSSS

O 031045Z FEB 66

FM 16TH AF ADVON

TO RUEKDA/SECRETARY OF DEFENSE

RUEAVO/C SAF USAF

RUWMFMA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNF/DEP INSP SFTY NORTON AFB CALIF

PUCSC/HQ SAC OFFUTT AFB NEB

2-6-3308

P-1
~~SECRET~~
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RUCVAA/HQ 2 AF BARKSDALE AFB LA
RUETBH/HQ 8 AF WESTOVER AFB MASS
RUTQBN/HQ 216 AF TORREJON AB SPAIN
RUCVHU/42ND AIR DIV BLYTHEVILL AFB ARK
RUETSR/322ND AIR DIV TURNER AFB GA
RUCVHU/97BW BLYTHEVILLE AFB ARK
RUETFK/68 BW SEYMOUR JOHNSON AFB N C
RUEBAA/AFCS ANDREWS AFB MD
RUCDSQ/AFLC WPafb
RUVGNH/SAAMA KELLY AFB TEAS
RUWMFMA/AFSVC KIRTLAND AFB N M
RUWHHL/OCAMA HILL AFB UTAH
RUWGNK/OCAMA TINKER AFB OKLA
RUWTBTA/DAD (ATB) EGLIN AFB FLA
INFO RUFPKS/USAFE CP
RUCVSK/SAC OTSL CARSWELL AFB TEAS
RUEPWZ/FM DASA SANDIA BASE N M
RUTH3H/CHIEF JUS MAG SPAIN

2-6-3308

BT

P-2

~~SECRET~~

10701000922

OO WWPJ

Z NY SSSSS ZOV RUEPWZ

Z CZ CEUL228 EUM535 REA644

OO RUEPWZ

DE RUTQBN 8A 0421555

Z NY SSSSS

O 111555Z FEB 66

FM 16TH AF ADVON

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUWMFNA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNFDEP INSP GEN INSP SFTY NORTON AFB CALIF

RUCSC/SAC

RUCVAA/2AF BARKUDALE AFB LA

RUETHB8AF WESTOVER AFB MASS

RUTQBNA16AF TORREJON AB SPAIN

RUCWHU/42ADIV BLYTHEVILLE AFB OKLA

RUETSR/822ADIV TURNER AFB G

47: 7/97BW BLYTHEVILLE AFB OKLA

RUETFK/68BW SEYMOUR JOHNSON AFB NC

RUEBBA/AFSC

RUCDSQ/AFLC

RUWGNH/SAAMA KELLY AFB TEX

RUWMFNA/AFSWC KIRTLAND AFB NM

RUWHHL/UCAMA HILL AFB UTAH

RUWGNK/OCAMA TINKER AFB OKLA

RUWTBIA/DAD ATB EGLIN AFB F

p/
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~~EXCLUDED FROM AUTOMATIC
DOWNGRADING, DOD DIR 5200.10
DOES NOT APPLY~~

ACTION INFO

OP-78
SE-9
TB-10, 11
DU-12, 13, 14
AM-15

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NO. 11 OF 15 COPIES SERIES~~

~~RESTRICTED DATA~~

~~RESTRICTED DATA~~

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young

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NO. 11 OF 15 COPIES SERIES
101555Z

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IMMEDIATE

NNN NPUA824VZCZCHZB62 9ZC 968
1 FEB 66 18 30

OO RUWPUJ
Z NY SSSSS ZOV RUEPWZ
EUL734 EUH005 CEF685
OO RUEPWZ
DESRUTQBN 8A 0321218
Z NY SSSSS
O 011100Z
FM 16TH AF ADVON

ACTION	INFO
OP-789 Called 4/5 Laird 18582	SE-10 TR-11,12 DU-11,12 AM-16

TO RUEKDA/SECRETARY OF DEFENSE
RUEAHQ/CSAF USAF
RUVHMA/DIR NUC SETY KIRTLAND AFB N M
RUVHNF/DEP INSP SETY NORTON AFB CALIF
RUCSC/HQ SAC OFFUTT AFB NEB
RUCVAA/HQ 2 AF BARKSDALE AFB LA
RUETBH/HQ 8 AF WESTOVER AFB MASS
RUIQBN/HQ 16 AF TORREJON AB SPAIN
RUCWHU/42ND AIR DIV BLYTHEVILLE AFB ARK
RUETSR/822ND AIR DIV TURNER AFB GA
RUCWHU/97 BW BLYTHEVILLE AFB ARK

THIS DOCUMENT CONSISTS OF 5 PAGES
NO. 12 OF 16 COPIES, SERIES

2-6-3089

Per
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U

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ETFK/68 BW SEYMQIR JOHNSON AFB N C
 RUEBBAA/AFCS ANDREWS AFB MD
 RUCDSQ/AFLC WPAFB
 RUWGN/SAAMA KELLY AFB TEXAS
 RUWFMA/AFSVC KIRTLAND AFB N M
 RUWHHL/OAMA HILL AFB UTAH
 RUWGN/OAMA TINKEJ AFB OKLA
 RUWTBTA/DAD (ATB) EGLIN AFB FLA
 INFO RUFPKS/USAFE CP
 RUCVSK/SAC OTSI CA SWELL AFB TEXAS
 RUEPVZ/FC DASA SANDIA BASE N M
 RUTHEH/CHIEF JUSMAG SPAIN

BT

~~SECRET~~ RESTRICTED DATA 08111 FEB 66.

SUBJ: SUPPLEMENTAL REPORT NT. 10 (ADVON) OF NUCLEAR ACCIDENT
 (BROKEN AJRW). SEC DEF FOR ASTIXAE); CSAF AND AFIGO, AFSS-
 AFSS-AE, AFINS; SAC FOR GEN RYAN AND DO, DM, DQSD; 2, 8
 42, 822 AD (DO, DM, DS); 68 & 97B (DCO, DCM, DS); SCIZ; MRS-
 SWVN; OOYS; JUSMAG FOR GEN DENOVAN. THIS CONSTITUTES ADDITIONAL
 OR CORRECTED INFO TO REPTS FROM 16 AF ADON SECRET/RD MSGS C001A,

23 JAN 66; C0028, 24 JAN 66 C0034, 25 JAN 66
 C0031, 26 JAN 66; C0054, 27 JAN 66; C0066, 28 JAN 66; C0088
 29 JAN 66; C0085, 30 JAN 66; C0089, 31 JAN 66; 1 FEB 66

P-2

~~SECRET~~

~~SECRET~~

2-6-3089

FC

PAGE 2 RUIQBN 8A S

SECRET

RPT CORRS REQUIREMENTS OF ATCHM'T 4, AFR 127-4.

A. NO CHANGE.

B. NO CHANGE. NO. 4 WEAPON, MK28Y1, MOD. 2, SERIAL NUMBER 45345 HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE.

F. THE INTENSIVE SEARCH FOR WEAPON NUMBER 4 STILL CONTINUES.

DAILY MEETINGS ARE STILL CONTINUING WITH THE SPANISH NECA PERSONNEL. THE PRIMARY DISPOSAL SITES (PIT) HAS BEEN SELECTED. AN ADDITIONAL SITE HAS ALSO BEEN SELECTED IN THE EVENT IT WILL BE NECESSARY. THE ACTUAL CONSTRUCTION OF THE DISPOSAL PITS IS STILL UNDER DISCUSSION.

WEAPON NUMBER 2 INFO FLOWS (THE ZERO CONTAMINATION LINE HAS BEEN ESTABLISHED. A 7,000 CPM ISOLINE WAS COMMENCED AND ALL AREA WITHIN THIS LINE WILL REQUIRE THREE ADDITIONAL BUILDINGS TO BE WASHED DOWN. THE BUILDINGS WASHED DOWN ON 30 JAN 66 SHOWED SIGNIFICANT DECREASES IN CONTAMINATION WHEN REMONITORED.

CLAIMS: EMERGENCY PAYMENTS THROUGH 31 JAN 66 HAVE BEEN MADE TO 73 CLAIMANTS. THE TOTAL OF PAYMENTS IS APPROXIMATELY \$4000.

G. NO CHANGE.

H. NO CHANGE.

I. NO CHANGE.

J. NO CHANGE.

K. SEE "F" ABOVE

2-6-1089

P-3

SECRET

PAGE 4 RUTQBN SA

~~SECRET~~

L. NO CHANGE.

M. NEWS RELEASES TO DATE: "THE FOLLOWING THREE OFFICIAL STATEMENTS RELEASED BY THIS HQ, AS CLEARED BY DOD AND STATE DEPT. THE SECOND STATEMENT WAS CLEARED BY THE SPANISH GOVERNMENT. SUBSEQUENT TO THE FIRST RELEASE, THE NAMES OF SURVIVORS AND FATALITIES WERE RELEASED. STATEMENT ONE-A B-52 BOEING FROM 68TH BOMB WING AT SEYMOUR JOHNSON AFB, NORTH CAROLINA, AND A KC-135 TANKER FROM 910TH AIR REFUELING SQ AT BERGSTROM AIR FORCE BASE, TEAS, CRASHED TODAY SOUTHWEST OFF CARTAGENA, SPAIN DURING SCHEDULED AIR OPERATIONS. THERE ARE REPORTS OF SOME SURVIVORS FROM THE CREWS OF THE AIRCRAFT. AND AIR FORCE ACCIDENT INVESTIGATION TEAM HAS BEEN

DISPATCHED TO THE SCENE. ADDITIONAL DETAILS WILL BE AVAILABLE AS THE INVESTIGATION PROGRESSES. STATEMENT TWO- THE FOLLOWING STATEMENT, CLEARED 20 JAN 66, IS FOR USE BY DOD AND 16AF IN REPLY TO QUERIES: "THE STRATEGIC AIR COMMAND BOMBER WHICH WAS ENGAGED IN REFUELING OPERATION OFF THE COAST OF SPAIN, AND SUFFERED AN ACCIDENT WITH A KC-135 TANKER WAS CARRYING UNARMED NUCLEAR ARMAMENT. RADIOLOGICAL SURVEYS HAVE ESTABLISHED THAT THERE IS NO DANGER TO PUBLIC HEALTH OR SAFETY AS A RESULT OF THIS ACCIDENT." STATEMENT ONE CLEARED FOR RELEASE BY STATEMENTS OF THE AUTHORITIES UNITED

4-6-3089

PAGE 5 RUIQBN 8A

~~SECRET~~

STATES NAVY AND THE UNITED STATES ARMY ARE ASSISTING SPANISH
AUTHORITIES AND THE US AIR FORCE IN THE SEARCH FOR WRECKAGE OF THE
B-52 AND KC-135 AIRCRAFT WHICH SUFFERED IN ACCIDENT DURING A REFUELING
OPERATION JANUARY 17. AIR FORCE OFFICIALS RECONFIRMED THAT
RADIOLOGICAL SURVEY HAVE FOUND NO INDICATION OF DANGER TO PUBLIC
HEALTH OR SAFETY AS RESULT OF THE ACCIDENT." QUERIES MAY BE
ANSWERED WITH CONTENTS OF THE ABOVE STATEMENTS, USING EXACT LANGUAGE,
OTHERWISE, "INVESTIGATION IS CONTINUING" OR "NO COMMENT."

N. NO CHANGE.

O. A. B. BRUBAKER, CAPTAIN, HQ 16AF, DMAE, EXT 3003, TORREJON AB,
SPAIN. THIS REPORT SUBMITTED FROM SITE OF ACCIDENT. GP-M

BT

2-6-3089

RS

~~SECRET~~

[REDACTED]

[REDACTED]

~~SECRET~~

MNNP UA 016 WZB5 74

OO RUWPLJ

ZNY SSSSS ZOV RUEPWZ

EUL 780VV EUH24CEB056

OO RUEPWZ

DE RUTQBN 01A 0331117

ZNY SSSSS

O 021045Z

FM 16TH AF ADVON

TO RUEKDA/SECRETARY OF DEFENSE

RUEAHG/C SAF USAF

RUWMFMA/DIR NUC SFTY KIRTLAND AFB NM

RUWHNF/DEP INSP SFTY NORTON AFB CALIF

RUCSC/HQ SAC OFFUTT AFB NEB

RUCVAA/HQ 2 AF BARKSDALE AFB LA

RUETBH/HQ 8 AF WEST OVER AFB MASS

RUTQENA/HQ 16 AF TORREJON AB SPAIN

RUCVHW/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/82ND AIR DIV TURNER AFB GA

RUCVMW/97BW BLYTHEVILLE AFB ARK

RUETFK/68 BW SEYMOUR JOHNSON AFB NC

RUEBAA/AFCS ANDREWS AFB MD

RUCBSC/AFLC WPAFB

RUWGNH/SAAMA KELLY AFB TEAS

RUWMFMA/AFSWC KIRTLAND AFB NM

RUWHHL/OCAMA HILL AFB UTAH

2 FEB 74

*called
14172
Helmond*

*retransmitted from DASA
to FC*

IMMEDIATE

~~SECRET~~

ACTION	INFO
<i>OP 7,8</i>	<i>-9</i>
	<i>TG-19</i>
	<i>DU-1313</i>
	<i>AM-15</i>

~~SECRET~~
NO 11... PASTS

2-6-3185
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IMMEDIATE

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31 JAN 66 14 23

HQS, DASA

EEUL666 EUG224CEF070

OO RUEPWZ

DE RUTQBN 8A 0311050

ZNY SSSSS

O 311006Z JAN 66

FM 16TH AF ADVON

TO RUEKDA/SECDEF

RUEAHQ/CSAF

RUWMFNA/DIR NUC SFTY KIRTLAND AFB N M

RUWHNF/DEP INSP SFTY NORTON AFB CALIF

RUC SC/SAC

RUCVAA/HQ 2 AF BARKSDALE AFB LA

RUETHB/HQ 8 AF WESTOVER AFB MASS

RUTQBNA/HQ 16 AF TORREJON AB SPAIN

RUCVHU/42ND AIR DIV BLYTHEVILLE AFB ARK

RUETSR/822ND AIR DIV TURNER AFB GA

RUCVHU/97 BW BLYTHEVILLE AFB ARK

RUETFK/68 BW SEYMOUR JOHNSON AFB N C

RUCBSQ/AFLC

RUEBBAA/AFSC

RUWGNH/SAAMA KELLY AFB TEAS

RUWMFNA/AFSWC KIRTLAND AFB N M

RUWHHL/00AMA HILL AFB UTAH

RUWGNK/OCAMA TINKER AFB OKLA

RUWTETA/DAD ATB EGLIN AFB FLA

INFO RUFPBWL/USAFE CP LINDSEY AS GERMANY

RUCVSK/SAC OTSL CARSWELL AFB TEXAS

RUEPWZ/FC DASA SANDIA BASE N MEX

RUTHRH/CHIEF JUSMAG SPAIN

DASA 00 37

~~THIS DOCUMENT CONTAINS...~~

return to DMA/...
+ C NO 7 Feb 66

PALOMARES

9

(Handwritten mark)

(Handwritten mark)

BT

~~SECRET~~ /C-00096 JAN 66.

SUBJ. SUPPLEMENTAL REPORT NO. 9 (ADVON) OF NUCLEAR ACCIDENT
(BROKEN ARROW). SEC DEF FOR ASTD (AE); CSAF AND AFICG, AFIIIS,
AFSSS-AE, AFINS; SAC FOR GEN RYAN AND DO,DM, D0SD; 2, 5, 18 AF,
42, 822 AD (DO,DM,DS); 68 & 97 BW (DCO,DCM,DS); SCLZ; MCASS;
SWVN; OOYS; JUSMAG FOR GEN DONOVAN. THIS CONSTITUTES ADDITIONAL
OR CORRECTED INFO TO REPTS FROM 16 AF ADVON SECRET/RD MSGS C 0014
23 JAN 66; C0028, 24 JAN 66; C00034, 25 JAN 66; C 00041, 26 JAN
66; C00054, 27 JAN 66; C00066, 28 JAN 66; C00080,
29 JAN 66; C00085, 30 JAN 66; 31 JAN 66. THIS REPT COVER REQUIRE
MENTS OF ATCHM'T 4, AFR 127-4.

A. NO CHANGE.

B. NO CHANGE. NO 4 WEAPON, MK2861, MOD.2, SERIAL NUMBER 45345
HAS NOT BEEN FOUND.

C. NO CHANGE.

D. NO CHANGE.

E. NO CHANGE

F. THE INTENSIVE SEARCH FOR WEAPON NO. 4 STILL CONTINUES.

NUMBER 2 WEAPON AREA INFO FOLLOWS: MAJOR ACTIVITY CONSISTED OF
ESTABLISHING THE ZERO CONTAMINATION LINE. AS NOTED IN PREVIOUS
REPORT CONTAMINATION IS EXPANDING SLIGHTLY. LEVEL OF EXPANSION IS
50 TO 500 CPM. THE ZERO LINE STAKED WITH RED FLAGS FOR USE OF
LOCAL SPANISH FARMERS AND CLAIMS OFFICERS. SHOVEL CREWS WORKED ON
TERRACES TO REMOVE THE ISOLATED HOT SPOTS (2-00-10,000 CPM) WHICH
WERE LEFT BY THE SCRAPER ON THE PREVIOUS DAY. REMONITORING OF
SCRAPED AREAS GIVE READINGS OF 600 CPM.

NUMBER 3 WEAPON AREA INFO FOLLOWS: ESTABLISHMENT OF ZERO
CONTAMINATION LINE WAS THE PRIME ACTIVITY. MARKING OF AREA WITH
RED FLAGS WAS ALSO ACCOMPLISHED.

MONITORING OF BASE CAMP (FIELD KITCHEN, MOTOR POOL,
VEHICLES, TENT AREA AND COMMAND POST) REVEALED NO CONTAMINATION.

BT

3

~~SECRET~~

~~SECRET~~

~~TOP SECRET~~

PRIORITY

TIPUA573 TUA839713435

31 JAN 66 13 15

OO RUMPUJ

DE RUTQBN 7A 0311245

ZNY SSSSS

O P 311030Z JAN 66

FM 1SAF ADVON SPAIN

TO RUWPQS/W R BARTON 9320 SANDIA CORPORATION ALBUQ N MEX

RUWPQS/S A MOORE 1540 SANDIA CORPORATION

INFO RUWPQA/ALCO AEC ALBUQ N MEX

RUWPQL/LASL LOS ALAMOS N MEX

RUWPUJ/DASA FILED COMD ALBUQ N MEX

RUWMFNA/DIR NUCLEAR SAFETY KIRTLAND AFB N MEX

BT

ACTION	INFO
OP-18	SEL 9 TG 10 DV-1203/14 AD-1

~~RESTRICTED DATA~~ /C-00095 JAN 66. FROM R.C. MAYDEW

AND S.V. ASSELIN. DATA INDICATES 15 FT. CHUTE WAS DEPLOYED BUT DAMAGED ON NUMBER 3 DURING TRAJECTORY. THIS WOULD CONFIRM SHORTER RANGE OF NUMBER 3. CALCULATE TRAJECTORY FOR NUMBER 3 ASSUMING STREAMING 15 FT. CHUTE AND 255 DEGREE GROUND TRACK. PLEASE REFERENCE ALL RANGE AND AZMUTH MEASUREMENTS RELATIVE TO NUMBER 2 IMPACT POINT SINCE NUMBER 2 WAS THE ONLY FREE FALL UNIT. ADDITIONAL TRAJECTORY REQUESTS FORTHCOMING. G-1.

~~SECRET~~

1-6-9213

WPMS DISCP

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SERIES

~~SECRET~~

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NO. 1 OF 2 COPIES, SERIAL NO. 1

~~SECRET~~ ~~ATOMIC ENERGY ACT~~

PRIORITY

30 JAN 66 17 28

NNNETPUA530W TUA7520TA297

OO RUWPUJ

DE RUTQBN 006A 0301530 NO

ZNY SSSSS

O P 301515Z JAN 66

FM 16AF ADVON SPAIN

ACTION	INFO
OP-7,8	SF-9
	TG-10,11
	DV-12,13,14
	AM-15

TO RUWPQS/ W R BARTON 9320 SANDIA CORPORATION ALBUQ N MEX

RUWPQS/S A MOORE 1540 SANDIA CORP ALBUQ N MEX

INRO RUWPQA/ ALBUQ OPERATIONS OFFICE AEC ALBUQ N MEX

RUWPQL/LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS N MEX

RUWPUJ/DASA FIELD CMD ATTN JAGC ALBUQ N MEX

RUWMFMA/DIR NUCLEAR SAFETY KIRTLAND AFB ALBUQ N MEX

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~~1 OF 2 COPIES, SERIAL NO. 1~~

3

~~SECRET RESTRICTED DATA AECOR/C-00087. JAN 66. FROM: R. C. MAYDEN~~

AND S.V. ASSELIN. PLEASE BRING THIS MSG TO THE IMMEDIATE ATTENTION OF W.R. BARTON BY TELECON TO HIS HOME. THOROUGH GROUND SEARCH RESULTED IN NO ADDITIONAL PARTS OF NR. 4 UNIT. NR. 4 TAIL PLATE WITH RING FORGING ATTACHED FOUND AT 1 DEGREE 46.7 MINUTES AND 37 DEGREES 15.3 MINUTES. ACFT AND UNIT DEBRIS TRACK PLUS CREW MEMBERS ESTIMATE OF ACFT GROUND TRACK INDICATES 256 DEGREES TRUE SHOULD BE USED FOR TRAJECTORY CALCULATIONS. CORRECT LOCATIONS OF UNITS ARE: ONE, 1 DEGREE 46.8 MINUTES AND 37 DEGREES 14.4 MINUTES, TWO, 1 DEGREE 48.75 MINUTES AND 37 DEGREES 14.65 MINUTES

~~SECRET RESTRICTED DATA~~

P.1

PAGE 2 RUCEN [REDACTED] NOFORN

AND THREE, 1 DEGREE 47.55 MINUTES AND 37 DEGREES 14.87 MINUTES. 16-FT. CHUTE OPENED SOMETIME DURING TRAJECTORY OF NUMBER ONE UNIT WHICH ACCOUNTS FOR IMPACT LEFT OF GROUND TRACK. RECALCULATE ACFT CRASH POINT FROM FREE FALL TRAJECTORY BACKING UP FROM MIDPOINT BETWEEN IMPACT POINTS OF UNITS 2 AND 3; THEN CALCULATE NUMBER ONE SPLASH POINT FOR 16FT. CHUTE DEPLOYING AT CRASH TIMEWM USE 256 DEGREE TRUE GROUND TRACK. THE ABOVE ANALYSIS IS FIRST OF TWO THEORIES FOR LOCATING NUMBER FOUR UNIT. A SECOND THEORY TO BE PURSUED IS THE MID-AIR ONE-POINT DETONATION IDEA. THE DETONATION MUST OCCUR AFTER AIRCRAFT-BOMB SEPARATION SINCE THERE WAS NO OR LITTLE EVIDENCE OF ALPHA OR BLAST IN B-52 79 BOMB BAY AREA OR ON UNIT 1. WE SPECULATE THAT AFTER DETONATION, THE TAIL PLATE AND SECONDARY SEPARATED FROM THE REMNANTS OF THE BOMB AND THE 16FT. CHUTE OPENED. WE ROUGHLY ESTIMATE WEIGHT OF 16FT. PARACHUTE PAYLOAD AS 500 POUNDSWM OBTAIN WEIGHT ESTIMATE OF BOMB REMNANTS FROM 1500 ORGANIZATION AND CALCULATE DETONATION LOCATIONS, FOR 5, 10 AND 15 SECONDS OF FREE FALL AND THEN CALCULATE THE THREE SPLASH POINTS FOR THE 16FT. PARACHUTE AND THE REDUCED WEIGHT. IN ADDITION, CALCULATE FREE FALL TRAJECTORIES OF SECONDARY FOR THOSE THREE ASSUMED CONDITIONS AND FURNISH IMPACT POINTS. IN ADDITION, ON A

P2

[REDACTED]

9-6-9199

[REDACTED] [REDACTED]
PAGE 3 RUTQBN 005A S E C R E T RESTRICTED DATA NOFORN

LOWER PRIORITY BASIS, TRY TO DUPLICATE TRAJECTORY OF NUMBER ONE UNIT BY DELAYING OPENING OF 16FT. PARACHUTE. NOTE THAT 16FT. PARACHUTE ON NUMBER ONE UNIT WAS NOT DAMAGED, NUMBER FOUR TAIL PLATE BEING SHIPPED BY AIR TO S.A. MOORE FOR ANALYSIS OF TYPE OF FAILURE AND EVENTS LEADING UP TO FAILURE. PLEASE NOTE SHEAR PATTERN ON RIVETS AND DISTORTION UNDER EIGHT QUARTER-INCH BOLT HEADS. COVER PLATE HAS BEEN REMOVED AND REPLACED TO REMOVE DETONATORS AND MDF REMAINS IN UNIT. SHIPPING REFERENCES FORWARDED IN LATER MESSAGE. PLEASE FURNISH ANY CONCLUSIONS AFTER ANALYSIS THAT WOULD LEAD TO FURTHER THEORIES AS TO WHAT HAPPENED TO UNIT FOUR. MAILING OF DRAWINGS TO US SHOULD BE THROUGH COL. R.C. JENKINS, DEP. CMDR, 15TH AF, APO 96283. GP-1.

1-6-9199

BT
03

[REDACTED] [REDACTED]

5583
3

PT 00127
OATSZYUW RUFORAI455 2001015-SSSS--RUUMHAC.
ZNY SSSSS
O 191910Z JUL 73
FM HQ DNA WASH DC

19 JUL 73 14 37Z

INFO JNACC ELG BMDR KIRTLAND AFB NM
O 191810Z JUL 73
FM JCS
INFO RUFADWD/CSA WASH DC
RUENAAA/CNO WASH DC
RUEHDBA/DNA WASH DC
RUEKAAA/ANMCC FORT RITCHIE MD
O 191806Z JUL 73

6

TO ZEN/SAC CP FORCE STATUS
ZEN/SAC CP LOGISTICS
ZEN/15AF CP FORCE STATUS
ZEN/15AF CP LOGISTICS
RUEFHQA/CSAF
RUEKJCS/JCS(NMCC)
RUEKAAA/AFFOC/FT RITCHIE
BT

DNA
(6)(3)

/JOPREP JIFFY /OPREP 3/PENT SPEAR
REPORT NUMBER 1102
4/191630Z

U/1 MARK 12
/NONE/NONE
/RV ASSEMBLY
/DURING A MARK 12 RV ASSEMBLY THE J7 CONNECTOR ON THE MIDSECTION WAS
CONNECTED TO THE WLC CABLE OF THE FORWARD SECTION. AS THE FORWARD
SECTION WAS BEING LOWERED THE TEAM CHIEF NOTICED THE J7 CONNECTOR

PAGE 02 RUCSHIJ 0109
AS LOOSE.
HE TORQUE WAS CHECKED ON THE WLC CABLE CONNECTOR AND IT WAS
IN ACCORDANCE WITH TECH DATA.
/NONE
/NONE

THE TEAM CHIEF DECIDED TO REMOVE THE WLC CABLE AND AS THE
CONNECTOR WAS BEING LOOSENED THE J7 CONNECTOR CAME OUT OF THE
MIDSECTION. THE TEAM CHIEF IMMEDIATELY
TERMINATED HIS ASSEMBLY PROCEDURES AND NOTIFIED HIS SUPERVISOR
/NONE
K/WRW W62 SERIAL NUMBER 171091 IS UNSERVICEABLE AT THIS TIME.
L/TECH DATA NOT AVAILABLE TO REPAIR
CONNECTOR. ALL OPERATIONS ON ASSEMBLING THE RV WERE STOPPED
IMMEDIATELY. NO FURTHER ACTIONS WILL BE TAKEN UNTIL DIRECTIONS
ARE RECEIVED FROM HIGHER AUTHORITY.

T O S M	
CMDR	3
ADM OFF	F2.2
B A	F2.3
	F3
I	F3.3
EA	F7.4
BA	F3.5
CD	RF X
NR CYS REC: 3	

BT
#1455
THIS DOCUMENT CONSISTS OF 1 PAGE(S)
NO. 2 OF 5 COPIES, SERIES 1

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~~SECRET~~

SECRET

ROUTINE

RESTRICTED DATA

BT 00042

BTTSZYUW RUVKADA4262 2011R2B-SSSS--RUWMHAC.*****

ZNY SSSSS

R 2018257 ZP 73

FM DIR SP WPNS KELLY AFB TEX

TO RUWMHAC/FC DNA KIRTLAND AFB NMFY/FCSMD

RUWJARA/SAMSO NORTON AFB CALIF/MNMR

BT

22
26 JUL 13 11 48Z

RESTRICTED DATA ATOMIC ENERGY ACT 1954 SWPTR
SUBJ: ONE TIME REPORT OF NUCLEAR INCIDENT (RENT SPEARY)
IS ASSIGNED MIP SAWPY73-30A3R. REPORT CONCERS W62 S7N
171091/MK 12 RV. DURING ASSEMBLY THE J7 CONNECTOR ON THE
MIDSECTION CONNECTED TO THE WIC OF THE FORWARD SECTION WAS
NOTICED TO BE LOOSE. THE TORQUE WAS CHECKED ON THE WIC
AND WAS CORRECT. THE TEAM CHIEF DECIDED TO REMOVE THE WIC
CABLE AND AS THE CONNECTOR WAS BEING LOOSEMED THE J7 CONNECTOR
CAME OUT OF THE MIDSECTION. REQUEST YOU INVESTIGATION AND
EARLY REPLY ON RESULTS.

BT

42.2

BT

[REDACTED]

DNA
(b)(2)

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This report contains Restricted Data as defined in the Atomic Energy Act of 1954. It is intended for the use of personnel who are authorized to receive Restricted Data. It is not to be distributed outside the organization to which it is addressed.

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[REDACTED]

[REDACTED]

ROUTINE

RESTRICTED DATA

IMMEDIATE.

UNCLASSIFIED

2588

PT 00133
OATSZYUW RUEBDB 0422 0452130-SSSS--RUMHAC.
ZNY SSSSS
O 142129Z FEB 74
FM HQ DNA WASH DC
INFO JNACC FC DNA KIRTLAND AFB NM

FEB 14 01 74

O 142125Z FEB 74
FM JCS
INFO DNA WASH DC
O 142121Z FEB 74
FM 380SAW CP PLATTSBURG NY /JJ0257
TO ZEN/SAC CP FORCE STATUS
ZEN/SAC CP LOGISTICS
ZEN/2AF CP FORCE STATUS
ZEN/2AF CP LOGISTICS
RUEFHQA/CSAF
RUEKJCS/JCS(NMCC)
RUEKAAA/AFEOC/FT RITCHIE
BT

~~CONFIDENTIAL~~
~~SECRET~~
~~TOP SECRET~~

which authorized the change) (Eff date)

E C S M	
CMDR	F
ADM OFF	2.2
B A	2.3
C	F3
D	F3.3
ER	F3.4
EQ	F3.5
CD	RE X

~~SECRET~~ JOPREP JIFFY/380BW/OPREP-3/BROKEN ARROW/002

14 FEB 74 1500Z
PLATTSBURGH AFB NUMBER ONE ALERT SHELTER

NONE DAMAGE LIMITED TO FB-111, NO INJURIES
ALERT EXERCISE GREEN DOT
FB-111 NOSE GEAR COLLAPSED

NR CYS REC: 2

PAGE 02 RUCSHIJ 2850 ~~SECRET~~
CREW RESPONDED TO NORMAL ALERT EXERCISE AND DURING CARTRIDGE
ENGINE START, THE NOSE GEAR FOLDED FORWARD AND RADOME CONTACTED
GROUND.

AIRCRAFT DISASTER CONTROL PROCEDURES ESTABLISHED, ALERT FORCE
REPOSITIONED TO SOUTH END OF RAMP.

NEWS RELEASE:
PLATTSBURGH AFB, NEW YRK-- AT APPROXIMATELY 11:02 THIS MORNING,
THE NOSE LANDING GEAR OF AN FB-111 BOMBER COLLAPSED WHILE THE
AIRCRAFT WAS UNDERGOING
ENGINE-RUN UP.

NORMAL EMERGENCY PRECAUTIONS AND ACTIONS WERE TAKEN
BECAUSE OF THE POSSIBILITY OF A FUEL SPILL.

IN THE INTEREST OF PUBLIC SAFETY, THIS NECESSITATED THE
CLOSING OF THE BASE GATES AND A PORTION OF ROUTE 22, A PUBLIC
HIGHWAY WHICH SKIRTS THE BASE NEAR THE

PAGE 03 RUCSHIJ 2850 ~~SECRET~~
AREA OF THE INCIDENT.
NO INJURIES WERE REPORTED FROM THE INCIDENT, AND NO ESTIMATE

AG/27 0004

IMMEDIATE

UNCLASSIFIED

IMMEDIATE

PT 00133

OF DOLLAR DAMAGE IS AVAILABLE AT THIS TIME.
A QUALIFIED BOARD OF AIR FORCE OFFICERS WILL BE APPOINTED TO
INVESTIGATE THE CAUSE OF THE INCIDENT.

END NEWS RELEASE.

NORMAL DULL SWORD AND SAFYEV REPORTING WILL FOLLOW THRU
NORMAL SAFETY REPORTING.

~~SECRET~~
BT
60422

NNNNz

[REDACTED]

[REDACTED]

IMMEDIATE

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