ARMY AIR FORCES

REPORT OF MAJOR ACCIDENT

Use this form in accordance with AAF Reg. 62-14 and "Aircraft" Accident Investigator's Handbook" issued by Office of Plying Safety, Headquarters, AAF.

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RESTRICTED WHEN ENTRIES ARE MADE HEREON

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VEATHER OFFICER				
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8. ARE COPIES OF AAF FORMS I, IA. ATTACHED HERED Y AS REQUIRED BY AAF REGULATION 62-14?

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9. ARE PHOTOS ATTACHED?

ATTACHMENT # 2

SECTION N - DESCRIPTION OF THE ACCIDENT

1. This aircraft was on an atmospheric research mission which extailed flying from the ground to 30,000 feet and return to as low an altitude as possible. The mission was estimated to be of three (3) hours duration. The pilot was considered very preficient in this type aircraft. The aircraft had a take-off weight of 104,556 lbs. and had been airborns two (2) hours and forty-five (45) minutes when the crash occurred.

The weather at the time of the accident was high scattered to clear shies with light variable surface winds over the area. The surface wind at 1130 PST at Las Vegas was 11 mph from the ESE. Boulder City did not transmit the 1130 weather but the 1230 weather for Boulder City showed the surface wind to be eight (8) mph from the SSE with the sky condition high scattered and forty (40) miles visibility.

The aircraft had made the minimum altitude run and all runs to 30,000 feet and return. At the time of the accident the aircraft was making the minimum altitude rum after return from 30,000 feet. This run was being made in a southernly direction on the portion of Lake Head, Yevada, that leads to the Virgin River. The aircraft was making good an indicated airspeed of 230 mph at an indicated altitude of 1600 feet. After approximately three (3) minutes at this altitude during which time the civilian scientiet, Mr. J. V. Simeroth, was recording his data the aircraft struck the water. In Mr. Simeroth's statement (Exhibit #15) he states that he recorded the altitude as 1600 feet with the Kollsman scale set at 29.92" Hg. The 1130 PST weather sequence for Las Vegas reported a setting of 29.53" Rg. The surface of the water at this time was to quote the crew "As smooth as glass. Immediately upon contact with the water numbers two (2), three (3) and four (4) engines were torn completely off the airplane. The pilot detected a fire in number one (1) engine at this time. All engine fuel shut-off valves were closed immediately. Also a large portion of the skin on the underside of the left wing had been torn off and the left horisontal stabiliser had been badly twisted and torn. An attempt was made to feather number one (1) engine and all throttles were closed.

The airplane exipped and gained approximately 200 to 300 feet after the initial touchdown. The pilot and co-pilot stated their combined efforts were required to hold the aircraft and that it was vibrating excessively. The co-pilot's airspeed was indicating 150 mph when the airplane was felt to stall. At this time the pilot's airspeed was indicating 45 mph so it is believed too much reliability cannot be placed on the co-pilot's indicated airspeed of 150 mph.

On the second touchdown the airplane was in a tail low attitude and the decelleration forces were not very great. The airplane traveled approximately 200 to 300 yards before it stopped and the airplane was afloat for approximately twelve (12) minutes before it sank.

According to the altimeter setting used by the pilot and the altimeter setting at the time of the crash at the nearest AF installation the pilot should have had approximately 300 feet of altitude.

SECTION L - GENERAL INFORMATION

3. A fire occured in #1 engine when the aircraft contacted the water the first time. It was noticed immediately by the pilot and he stated it was rather small. At the same time it was noticed #2, 3 and 4 engines were completely off the aircraft and the engineer closed the fuel shut-off valves to all four engines. It is not known whether the fire went out at this time or was extinguished when the aircraft made its second contact with the water. The second contact was approximately 30 seconds after the initial touchdown.

Statement of Captain R. M. Madison

Took off at 0851 PST, 21 July 1948. We started ascending east and north of Lake Mead, climbing to 30,000 feet. Upon reaching 30,000 feet we descended on headings of south and west until we passed over the north edge of lake Mead. Started rum south to descent down to 1600 feet indicated. From maps we computed altitude of Lake to be below 1200 feet. The water was very calm. Surface was absolutely smooth. I visually estimated altitude at 500 feet above the Lake with an indicated airspeed of approximately 230 mph. We struck the water. The airplane shuttered severely and we were able to lift the airplane off the water for an altitude of approximately 200 feet. In the air we realized \$2, 3, and 4 engines had been completely torn off the airplane and \$1 engine was on fire. The under side of the wing was thrown off. The left stabilizer was at least partially thrown off. Estimated ditch at about 1135 PST.

We cut fuel off immediately and feathered the #1 engine. My airspeed indicator was out. Co-pilot later advised me our airspeed was 150 indicated and airplane began to stall. I dropped the nose, was able to gain control sufficient to get the nose up just before impact at approximately 150 indicated. The tail struck first, drug in the water for approximately 200-300 yards before the nose made impact. With the first impact of the tail, the co-pilot and myself opened our hatches. There was no time to warn the scanner in the rear. Sgt. Burns went out first through my window. It. Hesler followed by Mr. Simeroth immediately went out the co-pilot's window. I went out the pilot's window immediately behind Sgt. Burns and climbed on top of the airplane, ran to the rear section and found the rear escape hatch under approximately six feet of water. After stamping on the top side of the airplane we heard Sgt. Rico from the center of the tunnel calling us for help.

I directed Sgt. Burns to inflate the left raft and Lt. Hesler the right raft and then made my way forward and entered the pilot's window, while the water was at the lower edge of the pilot's hatch.

Page 2 of Captain Madison's Statement

I made my way to the tunnel and found Sgt. Rico lying on his left side, unable to move with his parachute. I managed to pull him out of the tunnel and carry him to the co-pilot's window. By that time Mr. Simeroth was inside and helping me put Sgt. Rico out the co-pilot's hatch, while Lt. Hesler and Sgt. Burns also assisted putting Sgt. Rico in the raft. There were no first aid kits in the rafts, (only bandages), so Mr. Simeroth, who was still in the airplane, brought out the first aid kit above the navigator's table. The airplane was about ready to submerge. Then Mr. Simeroth got out of the airplane and we immediately tied two rafts together and rowed off and watched it sink. I estimate the airplane floated between 10 and 15 minutes.

Sometime after we spotted a C-47 flying at high altitude. We learned later that the C-47 had advised Las Vegas Airways that a boat appeared in distress so that the TWA air liner taking off shortly after was asked to fly over our position. We sighted TWA DC-3 at approximately 1350 PST. We signaled him with three smoke flares. He circled over our position and reported we were two life rafts in distress. The Lake Mead Boat Co. dispatched a motor launch and picked us up at 1745 PST. We arrived back at Boulder City at approximately 1815 PST. Immediately upon making landing we placed a long distance telephone call to the Duty Officer at Armitage Field. Major Baker took the call and I reported airplane loss, all personnel safe, with Sgt. Rico the only one injured with broken left arm.

Immediately thereafter Sgt. Rico was taken to the Boulder City hospital where a traction splint was applied and morphine administered.

Lt. Comdr. Carr from Armitage Field arrived in Boulder City at approximately 0630 PST, 22 July 1948, in a JRB and brought back all personnel to this station.

I would like to make part of the official records that all personnel aboard conducted themselves courageously. At no time did anyone display any undue excitement.

Page 3 of Captain Madison's Statement

The purpose of this flight was scientific research. The mission called for flight from as low an altitude as safe to 30,000 feet and descend to low altitude.

Mr. Simeroth, Bureau of Standards, was making light intensity readings with change of altitude.

R. M. MADISON. Captain, A.C.

