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MONMOUTH AIRLINES, INC SCHEDULED AIR TAXI BEECH 94, N986MA ALLENTOWN-BETHLEHEM-EASTON AIRPORT ALLENTOWN, PENNSYLVANIA OCTOBER 24, 1971

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<u>SPECIAL NOTICE</u>

This report contains the essential items of information revelant to the probable causes and safety messages to be derived from this accident. However, for those having a need for more detailed information, the original factual report on the accident is on file in the Washington office of the National Transportation Safety Board. Upon request the report will be reproduced commercially at an average cost of 154 per page for printed matter and 754 per page for photographs, plus postage. (Minimum charge \$1.00.)

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File No. 3-2307

MACHINAL TRANSPORTATION SAFETY BOARD WACHINGTON, D. C. 20591 AIRCRAFT ACCIDENT REPORT

Adopted: December 29, 1971

MCHMOUTH AIRLINES, INC. SCHUDULED AIR TAXI REECH 99, N-996MA ALLENTOWN-METHLEDEM-EASTON AIRPOVE ALLENTOWN, TERREYLVANIA OCTOBER 24, 1971

JYNOPSIS

At approximately 2514 c.t.t., Cotober 24, 1971, Monmouth Airlines, Int., solutions air taxt Fitget G. a Beech Model 19, NOB6MA, crashed at approximately the 1.54-Foot level of Dius Mountain during an instrument approximate to the Allentown-Sethichem-Easton Airport, Allentown, Fransy same.

The destable copling and two passeners were fainly injured. The fair reading second are were periodaly injured.

The Mattanal Transportation Sefety Board determines that the probable rease of the accilent as the plict's since erange to approve approach pressioned of the science a copyrition instrument approach in instrument flight the life in the inner further finds that there is a high degree of probability that his entered or another has not actual instrument flight time report to this sectors resulted in the fatigue of both pilots, and affected their publicant and deviations during the approach.

The Board only specific recommutations to the Federal Aviation Adviction and a second for the second sector of the Attack ont C for detailed information regardent disk marging recommutations and the FAA's reply.

INVESTIGATION

Monmouth Airlines, Inc., based at the Monmsuth County Airport, Farmingdale, New Jersey, operates numerous scheduled air taxi flights in Northeastern United States.

Monmouth A. rlines Flight 98 (Monmouth 98) of October 24, 1971, originated at Wilkes-Barre-Scranton Airport. Pennsylvania, and was to have terminated at the Allentown-Bethlehem-Maston Airport (ABE), Allentown, Pennsylvania. The flight departed Wilkes-Barre-Scranton at 2253 1/ with two pilots and six passengers, on an Instrument Flight Rules (IFR) clearance to the ABE Airport. The routing was "direct" to the Allentown VORTAC 2/ to maintain 4,000 feet.3/

At 2301, two-way radio contact was established between Monmouth 98 and Allentown Approach Control. During this initial radio contact, Monmouth 98 was given the current weatinsr and altimeter setting and advised that a choice of approaches to the Allentown ABE Airport was available. ABG Airport has facilities for both a VOR and ILS 4/ approach. Monmouth 98 requested a VOR approach. The flight then was instructed by Allentown Approach Control to report when it was 12 miles north of the Allentown VOR.

At 2305, Monmouth 98 advised that the DME aboard the aircraft was not working too well and that it would be recessary to use the 030° radial of the East Texas VOR to establish a position 12 miles north of the Allentown VORTAC. Allentown Approach Control then asked Monmouth 98, "how far out do you think you we?" Monmouth 98 replied that it was estimating Allentown in about 6 minutes. At 2307, upon receiving the flight's position estimate, Allentown Approach Control 'cleared Monmouth 98 for a VCR approach to a landing on Runway 6. Monmouth 98 was requested to report when inbound over the Allentown VOR. Monmouth 98 acknowledged .the clearance. This was the last known radio contact with the flight.

The wreckage of Flight 98 was locate3 about on the 360° radial of the ABE VORTAC, on the ridge of Blue Mountain near latitude 40" 48' 40" N. and longitude 75° 29' 45" W. The terrain elevation of the accident site is approximately 1,540 feet. Blue Mountain is a rolling ridge with ridge top elevation varying between 1,500 and 1,600 feet. The ridge runs

- 1/ All times herein are eastern daylight based on the 24-hour clock.
- 2/ VORTAC A colocated Very High Frequency OMNI Range Station (VOR) and Tactical Air Navigation aid, These facilities are capable of providing distance information as well as azimuth to mircraft having distance measuring equipment (DME) on board.

3/ All altitude and terrain elevations are mean sea level.

4/ ILS - Instrument Landing System

in a generally east-west direction and is located 11 miles north of the ABE Airport and 5 1/2 miles north of the Allentown VORTAC.

Broken tree limbs and various aircraft components, including the outboard sections of both wings, portions of the horizontal tail ourfaces, and the right engine, were distributed for 370 feet along a path of 180° magnetic.

Impact and fire damage precluded reliable documentation of the operation of any cockpit instruments except a clock and one of two altimeters. The damaged clock was stopped at 11:14.

A laboratory examination of the attimeter disclosed a setting of 30.02. Severe internal damage precluded a determination of preimpact operating capability.

The altimeter setting that was transmitted to the crew during the approach was 30.05.

The horizontal stabilizer was set between 2.62° and 2.57° leading, edge up and the landing flaps were extended 66 percent. These settings were compatible with an instrument approach configuration.

There was no evidence of a preimpact malfunction of the diritance, powerplants, or associated components.

The powerplants, airframe, and associated components revealed nothing that would have contributed to mechanical malfunction prior to impact. All electronic navigational equipment and instrumentation was damaged by fire to the extent that meaningful determination of preimaget operating conditions, frequencies, or OMNI hearing scheeter settings could not be made.

The maintenance records indicated that the aircraft had been saintained in accordance with Federal Aviation Regulations and company procedures and requirements.

Reported weather conditions at the Allentown ABE Airport at 2257. on October 2¹, 1971, were: coattered clouds at 500 feet, measured coiling 800 feet, overcast, visibility 5 miles, light rain and fog, temperature 59°, dew point 59°, wind 090° at 12 knots, altimeter setting 30.05.

The Allentown ABE Airport is located on the north side of the tri-city metropolitan complex of Allentown, Bethlehem, and Easten, Fennsylvania. The Allentown Queen City Municipal Airport is located south of the cities.

The Queen City Municipal Airport is close to the AEE Airport, and has a VOR-1 approach plate with peculiar similarity to the AEE VOR-1 approach plate. The Queen City VOR-1 approach utilizes th; East Texas VOR facility for the approach to Queen City Airport. The ASE WOR-1 approach utilizes the Allentown Wel facility for the approach to ARE. However, the minima altitude over the final approach fix for the Queen City approach is 1,000 feet, whereas the minimum altitude over the final approach for for the ABE approach is 2,200 feet. Both of these approach pintes were filed together in the case approach plate binder utilized to Memouth Altitude. (See Attachment B for approach details and minima for each facility.)

The surviving presengers reported that there was no toplation of the impending acclose on the flight from Wilkes-Barre to Allentows. A coording to their statements the curtains separating the subget from the presenger comparison were closed before the taxent? from Wilkes-Barre, thus they well wable to observe the crew's activity furing the flight. They said that alternal the flight was very reach, the school of engines seemed coronic, dust before itself and the encoded insertant being subtrip specied carry mass into their sector for another of being subtrip specied carry mass into their sector were setting of being subtrip specied carry mass into their sector sector insertance by "creating and bursting sounds." They said that airclus? we were available fire chartly after scaling to rest and that there were availe apples. " during the endering fire with destroyed to the scale with apples. " during the endering fire with destroyed to the scale of a fire function come to rest. They were shid to argument the market all of the function can be rest. They were shid to argument the market all of the function can be rest. They were shid to argument the market all of the function

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No evidence of preimpact failure or malfunction of the aircraft, preserplants, controls, associated systems, or components was found.

In view of the post-mortem findings, the Safety Board believes that the captain's failure to have a currently valid medical certificate was not a contributing factor in this accident. However, the long on-duty hours, and the considerable number of hours of flight ender instrument flight rule conditions, may well have resulted in fatigue for both pilots, which affected their judgment and decisions during the instrument upproach to the AHE Airport.

A direct flight from wilkes-Barre to the Allentown VORTAC will result in a flight path of shout 190° magnetic. This is also the inbaged baseling for the VOR-1 approach to the ARE Airport.

Since the filmt had been closed from Wilkes-Barre direct to ABE. the pilot likely would have established course on the Allentown 360° rultal atiliate the Allenton World. Hence, in referring to the assaumant thate, his main concern might have been the minimum altitude where two first associate fig. According to the Allentown Approach Control a manufacture transcript, the pilot used the 030° radial of the last Tranks Will be detailed as constituting north of the Allentown VORDAC to make of the erestic operation of the LE. That the 12-mile fix was we with recent is all the the grant of the grant of the the thering of the from also doe tome be as meethin that at this justif, as a result of the company and the pression flight destate destates the plight elected to raise a 化银油 新闻 法后 医后后 经资产 化十四十二 新闻 医紫癜 古美俚无所见 化法数的指数 医加肉白的过程 电反电热性 快致 time we arguithed. It, as this otherwateaux, the Alleht, an Queen City PF 圆头子,压成了1000 环境的 化用油合理 的复数人名法格尔 经定义资格分析公司法 龙胆 皮肤发发的现在分词 不能使 机能能导致的 把某某某一 s and the lateral time algements for, the attracts wand have been 1. 电子加速音频率 人名马克 人名马克 建成分子 医水子子的偏差 的第三人称形式的现在分词 经公司付款通知 的第三人称形式 医白色花 数字 idente on the structure of the state of the state of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the structure of the 医甲酚丁丁基 他们们这是 医睑 俺 "随后来的这个事"来回了那带 莱恩斯加德国西 地名加加斯尔尼尔姓 复招 法把回 隐门的复数推进的 4 7 m

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Had the correct procedure been followed, there would have been several opportunities for the crew to become aware of an altimeter misreading or the unintentional use of the wrong approach chart.

The Board also considered the possibility of erroneous station passage depiction by the VGR course indication needle. It is realized that if needle fluctuation occurred it could be interpreted as station passage. However, since impact occurred some 5 1/2 miles from the VORTAC, the "to-from" feature of the VOR receiver instrubentation should have shown a steady indication of flight "to" the station. The "to-from" indicator is the primary means of determining station passage.

The damaged condition of the cockpit instruments precluded a meaningful determination of the VOR receivers' functional operating capabilities or other evidence that would support a W.R course indicator malfunction.

PROBABLE (AUSE

The National Transportation Safety Board determines that the probable cause of this accident was the pilot's nonadherence to approved approach procedures for executing a nonprecision instrument approach in instrument flight conditions. The Board further finds that there is a high degree of probability that the extensive on-duty time and actual instrument flight time prior to this accident resulted in the fatigue of pilots, and affected their judgment and decisions during the approach.

RECOMMENDATIONS

The Board recommended that the Federal Aviation Administration:

- (1) Require some conspicuous and distinctive marking to he affixed to the Allentown approach plates to enable pilots to identify the proper plate quickly and positively. The words "CAUTION -- VERIFY PROPER APPROACH" or similar phraseology may be appropriate.
- (2) Promptly review all instrument approach plates to determine instances of potential approach plate misidentifications in other locations, and if found, institute the same remedial action.
- (3) As an interim measure, notify the public of this potential hazard by whatever means you deem most expeditious and effective.

See Attachment C for detailed information regarding the Board'e recommendations and the FAA's reply.

BY THE NATIONAL TRANSPORTATION SAFETY BOARD:

/s/ JOHN H. REED_____ Chairman

/s/ OSCAR M. LAUREL. Member

/s/ <u>FRANCIS H. MCADAMS</u> .Member

/s/ LOUIS M. THAYER _____

/8/ ISABEL A. BURGESS Member

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December 29, 1971

Attachment A

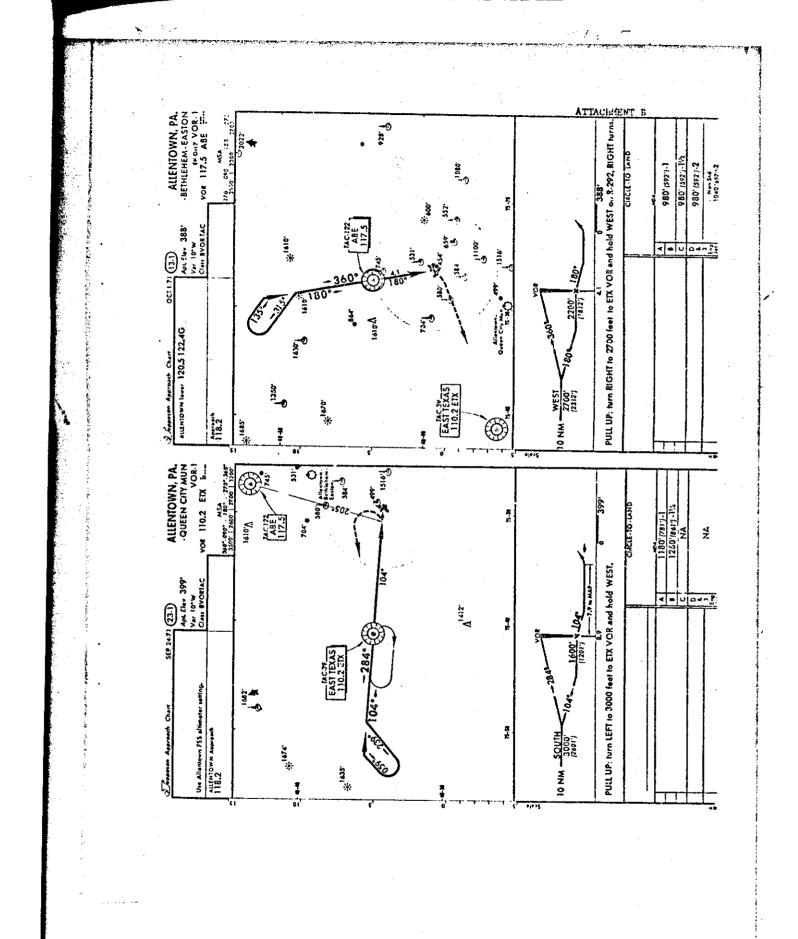
CREW HISTORY

Captain Richard S. Ricotta, aged 28, held Airline Transport Filot certificate number 1736863. His first-class medical certificate, with no limitations, was dated June 30, 1970. A first-class medical certificate is valid for 12 months from the date of issue for the exercise of commercial pilot privileges.

Captain Filcotta completed his Federal Avtation Administration (FAA) competency check to pilot a Beech 99 aircraft under IFR conditions on October 7, 1971.

The copilot, James Richard Crawford, aged 25, held Commercial. Pilot's certificate number 1669226, with flight instructor, instrument, single- and multiengine land, and rotocraft ratings. Mr. **Crawford** held a current first-class FA4 medical certificate, with no limitations, dated February 25, 1971.

Copilot Crawford was regularly employed by the New York City Police Department as a helicopter pilot. His association with Monmouth Airlines included voluntary flying as a copilot on an infrequent basis. At the time of the accident it was the policy of Monmouth Airlines to use copilots who agreed to fly for the experience without other compensation.



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ATTACJMENT C

UNITED STATES OF AMERICA NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C.

ISSUED: November 17, 1971

Adopted by the NATIONAL TRANSPORTATION SAFETY BOARD at its office in Washington, D. C. on the 3rd day of November 1971.

FORWARDED TO: Honorable John H. Shaffer Administrator Federal Aviation Administration Washington, D. C. 20591

SAFETY RECOMMENDATION A-71-60_thru 62

On October 24, 1971, an aircraft crashed while executing a VOR instrument approach to the Bethlehem-Easton Airport, Allentown, Pennslyvania. This accident resulted in four fatalities and four serious injuries. Preliminary investigation of the accident and a review of the VOR approach procedures for the Allentown area indicate that the VOR approach plates may have been a factor in this accident.

The aircraft crashed 10 miles north of the airport and 5 miles morth of the Allentown VOR at an altitude of 1,600 feet mean sea level (m,a,1,). In an attempt to ascertain why the aircraft was at that altitude, all that point, the VOR approach plates were reviewed closely. It was noted that 1,600 feet m.s.l. is the low station altitude for the Allentown VOR approach to the Queen City Municipal Airport, utilizing the East Texas VOK. The VOR approach to the Bethlehem-Easton Airport, using the Allentown VCR, has a low station altitude of 2,200 feet m.s.l.

Since both instrument approach plates are extitled "VCR-1" and have the word Allentown twice in proximity thereto, it is enttroly possible that haste, poor lighting, or other factors night have caused the plats to select the wrong approach plate for the approach they were conducting. Thus, when the aircraft was cleared for the approach and erron-cusly descended to 1,600 feet m.s.l., there was inadequate terrain clearance, and the ensuing accident was inevitable.

Honorable John H. Shaffer

In light of the foregoing, it is the opinion of the Astical Transportation Safety Board that some method must be instituted to preclude, insofar as possible, selection of the ingrouper instrument approach plate. To this end, the Board recommends that your Assistanticity

> 1. Require some conspictures and distinctive assumes to be affixed to the Allentown approach plates to could plitte to identify the proper plate quickly and positively. The world "CAUPION--VERIFY FROMM APProach" or similar parameters may be appropriate.

2. Promptly review all instrument approach planes to interview instances of potential approachs plane similarities the other locations, and if from instruce the same standing action.

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Smar Mr. Chairmann

This is is response to your Safety Becamendations A-71-50 through 62. Received 17 November 1975 concerning a Morecuth Air Lines accident in the Visiaity of Allastoom, Franky: Wanta.

The conditions situal in your recommutations have been reviewed. Basea on available information, we do not consider that the VOR approach plates were a soutribuiling factor in this accident nor do we consider that the processmated actions are oppropriate.

The Heart has based their recommutations on the presize that the pilot may have selected the wrong WH approach plate due to some similarity between the supert name, hasts on the part of the crew, of poor lightland.

Our partner of the ATC recordings indicate that the pilot was fully aware of his position, the navigation facilities he was utilizing and that he was familiar with the decidation sirport. The pilot reported that he would attime the bast Treas Wix 050° radial to report his position is elles must of the filentown W.M. He also reported that he wanted a WM approach to the filentown W.M. He also reported that he wanted a WM approach to the south of the airport. He was subsequently cleared for the WM approach, to land on runway b with instructions to report at the WM approach. In order to make a WOR approach utilizing either approach pints, a pilot must proceed to the VOR by airways at MEA and execute a procedure turn, since RADAR is not available and a straight-in without a procedure turn is not authorized. If the pilot selected the errors approach shart, he would be required to make a procedure turn on the 200° radial, and the crash site which was approximately 5 miles must be the Allectown W.M does not substantiste this theory.

is new of the plict's votes transmissions and the location of the erses site. we do not believe that he utilized the incorrect chart, that he was planning his approach in haste, or that he was having any conspit difficulties. In summary, this was a routine, scheduled air taxi operation. The pilot flew regularly into the Allentown, Bethlehem-Easton Airport and was familiar with the route and airport environments; therefore, the information available to the FAA does not support the action recommended by the Board.

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Sincerely,

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(signed) Jack J. H. Shaffer Administrator