The last flight of *Texas Tornado*

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USAAF B17E Flying Fortress 9 June 1942

- In NZ on secret mission
- Crashed soon after take-off at night
- Caught fire on impact, 500lb bomb exploded, then 26,000 litres of fuel
- All 11 occupants killed, neighbouring house/farm buildings severely damaged
- Casualties buried at Waikumete Cemetery and remains repatriated post-war
- Large wreckage removed, rest bulldozed into bomb crater [eye witness]





Crash site management

- Site apparently undisturbed but development imminent
- Previous reports of finds of human remains & munitions (post clearance) at site
- Protection by scheduling not feasible
- Negotiated consent conditions providing for prior investigation/monitoring before development
- Located archaeologists willing to lead project voluntarily.
 Owners contributed machinery & other support. Team of ca 15 volunteers did work
- Liaison with current owner (NZRPG), US Consul, US Defense MIA Unit, Ministry for Cultural Heritage, Auckland Museum, NZ Air Force, Local Board....



Objectives

- Locate and undertake a controlled excavation of infilled bomb crater to allow identification and recovery of any further human remains, personal items or definitive crash relics
- Determine if any unexploded ordnance or contaminants present
- Make a record of the site before it was destroyed





Infilled crater located by ortho-rectification of aerials, probing and test pitting



Artefacts

- Top of crater fill artefacts associated with crash clean-up; damaged farm/house items (fencing, roofing, tree limbs etc)
- Numerous aircraft components.
 Duralumin (structural aluminium alloy) badly corroded, some melted.
- Rubber & fabric items (incl 'Mae West' lifejackets), ?seat material.
- Many small items, buckles etc.



Sealed bottle lodine from Med kit?





Ammunition – lots, but all had exploded during the fire

Mostly heavy machine gun; also light machine gun & side arm calibres







Personal Items



Lieutenant's Bar (Navigator?)

Sidearm Holster (Front Cover) Left?











Bomb Fragments



- Bomb Fragments at bottom of crater
- Number engraved '..36B6'
- Possible model AN/M43?



Crew loading 500lb bombs in Australia 1942



Outcomes of site investigation

- No human remains found during excavation. All earlier reported finds followed up to check if any locatable
- Contamination not significant, but strong fuel smell in base of crater
- Personal/uniform items to be repatriated to US MIA unit
- In discussion with Auckland Museum regarding other items
- Analysis/report in prep. (by volunteers)
- Land owner receptive to memorializing event at/near site
- Open days and TV1 News item, conference poster
- Site of tragedy treated with respect and in accordance with wishes of US Consul & Defense Dept.
- Very positive feedback, including from owner
- No cost to Auckland Council other than some staff time several HU staff worked voluntarily

Crash site investigation was about doing what was right rather than what we were required to do. No agency has any responsibility for such sites

- Aircraft reached an altitude of around 150' (50 m) then began to descend and struck rising ground before coming to rest around 2.6 km beyond the end of the runway
- Outcome of inquiry: pilot error. Contributing factors: changeover from flying by landing lights to instrument flying; lack of familiarity with terrain
- Board of inquiry was unfamiliar with aircraft & its controls



Aircraft: Well regarded and capable aircraft. No evidence any faults contributed to crash

Environment: Night, but fine and clear conditions

Pilot: Very experienced, had landed at Whenuapai recently, inspected runway the day before

but....



- Pilot and co-pilot had spent the evening socializing in the Grand Hotel, Princes Street.
 Arrived in taxis with women at midnight
- They...had been enjoying themselves, although they were still perfectly capable of flying the machine (eye witness)
- Took off without undertaking pre-flight checks.
 Did not test control surfaces (ailerons, elevator, rudder)



- Complex aircraft to fly
- Prototype of B17 crashed due to failure to disengage gust locks
- Can be difficult or impossible to disengage after take-off and situation may not become apparent

until too late

 Written pre-flight checklists introduced



APPROVED B-17F and G CHECKLIST ARRUSE \$-1-44 PROTS BUTTES IN HER COPILOTS DUTIES IN BLACK REPORT STARTING ENGINE RUN-UP 1. Filery Redigks - COMPLETE 1. Brakes Lucked T. Form SA -- CHSCHID 2. John Sales All 3. Coursels and Years CHECKED 2. Species Turkes and Propi 4. Food Transfer Values & Sauteh. COT A. Charl Greenstern DRICKED & CH. 5. Internaliza-Cald A flor up Tegines 6. Dynn-litecapin BEFORE TAKEOFF 7. feel Shut-off Switches-DPSH 1. Tailwheel-Ladaul 8. Quar Switch-HBUTRAL 2. Gyber-bei S. Cawl Plant - Open Right --E. Oppositions, Co. OPNIN LEFT-Locked 19. fellow Off ATTER TAXABLE 11. WAR OVER CHICATO 1. Wheel PEO13 SQUARE 12. Throftier-ILUSED 3. Pawer Sederfier 12. High SPM-DISCOURT E. Coul Hago 14. Autopliet Off 4. Wheel Cheek-OK right-OK 1875 15. Do north and Authors, Wing and Prop. DIR REFORT LANDING 1. Radio Coll, Altimoter-IIIT 16. Cable Hees. CHI I. One Positions OK 17. Generators 1986 S. Astroplist Diff. STARTING SHORES 4: Baselor Pempi-On. I. The Shard and Call Class LDT Right 5. Wiston Cantrals - AVIO-REN 3. Marter Society - OH 6. Directories del 3. Statery suitables and bornters. USI & 7. Cerkonster Filters: Open E. Wing Dr. bers. Off 4. Purking Broken-Hydrovita Chesk-On-W. Londing Good s. Vised-Down Right, DOWN 1881 5. Boarter Parago Property ON 8. Solishard Dewy, Astronomia, Sadi CHECKED Torret Checked A. Corboster filters Open S. Hote-To-F. Fund Quantity-Guillann per tunk. L. Switch Off-Meutel 6. Start Leginou hork magnette an 18. Hardon, Sa. Pressure - 105. Walve placed after one revolution 11: 89M \$100-Set P. Playld Indicator & Vession Pressures 12. furber-fer 13. Shope hards from FI. Check festivement. CHICKES The Cown Report. 14. Hope: PRDT'S SIGNAL IS NOW THE PROPERTY. 13. Rudie Call & Altimeter-181

Conclusions

- Cause of the crash unable to be determined.
 Alcohol likely a factor, but needs to be viewed in context wartime, different standards prevalent then
- No evidence of alcohol on board as later suggested
- Crash investigations were not as rigorous, complicated by status of aircraft
- Surprisingly inconsistent evidence from witnesses
- Possible that there are additional crash remains at the site or in the landfill



Memorial at similar crash site in Arkansas – full size replica, wall of remembrance, shrine...

Acknowledgements

Simon Bickler and Simon Best and numerous other volunteers who contributed many hours of their time and expertise

Mark Gunton, Derek Manning, NZ Retail Property Group for providing logistical support and for being supportive of the investigation

Melanie Higgans US Consul; Jesse Stephen US Defense POW/MIA Accounting Agency for their support and interest

