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General

A. Reference to weather effecting radar

The following information was obtained from the U.S. weather bureau, Washington DC on the Lakehurst NJ at weather ~~report at Lakehurst~~ 10)30, 10 Sept 1951, ~~Washington, D.C.~~

Southerly winds, a high pushing out off the coast extending for at least 100 miles north and south of Fort Monmouth area. No precipitation for 600 miles in any direction from Fort Monmouth. A few scattered high cirus clouds at approximately 25,000 ft. No significant inversion below 16,000 ft. An inversion at 16-17,000 ft of 1°C/thousand increase. Air was quite moist up to 14,000 ft - no water droplets. No inversion above 17,000 ft up to tropopause (47,000) Temperature 47,000 was - 67°C a total inversion of 2°C up to 60,000 ft. Temperature decreased from -65°C to 75,000 ft rapidly to -48°C. Didn't get good sounding 2200 EST, however, no significant change occurred - ~~believed difficult~~ Nothing ~~believed to~~ would have given erroneous radar signals.

Weather report at Stewart Air Force Base 10:00, 11 September 1951. (No soundings made in the near vicinity of Lakehurst on 11 Sept (10) 24 Indications of an upper front dissipating in the area West of Newburgh. This front carried weak showers which would appear all along the coast (along a line extending from Sandy Hook to La Guardia). There was a very pronounced inversion at 1000 hrs between 2000 and 2500 ft of about 3°C/1000 ft increase in temperature. Within 75 miles of Fort Monmouth at 1000 there were brief showers (small amount of precipitation traces in the order of 100th inch. Water droplets 3-5000 ft. Strata ~~from~~ decks at 10-14000 ft. Sounding was ended at 42,000 ft.

In general cumulus clouds with considerable density were encountered. Clouds with water droplets at 10,000 ft at 1000 hrs lowering to 2000 ft at 1600 hrs.