

## 4.1 INTRODUCTION

General description of the KT 76/78 Transponder and its use in the Air Traffic Control Radar Beacon System:

The KT 76/78 Transponder is an integral part of the Air Traffic Control Radar Beacon System (ATCRBS). In the aircraft, its function is to transmit a coded response to a coded interrogation transmitted by an air traffic control ground radar station.

There are two types of radar at each of these ATC ground stations. The first, called the Primary Surveillance Radar (PSR), operates on the normal radar principle of receiving energy reflected from the aircraft under surveillance. The second, called the Secondary Surveillance Radar (SSR), operates on the coded reply from the airborne transponder. Both radars are used in conjunction to develop the total air traffic situation and to display it on a single radar scope. A typical air traffic control ground station is shown in Figure 4-1.

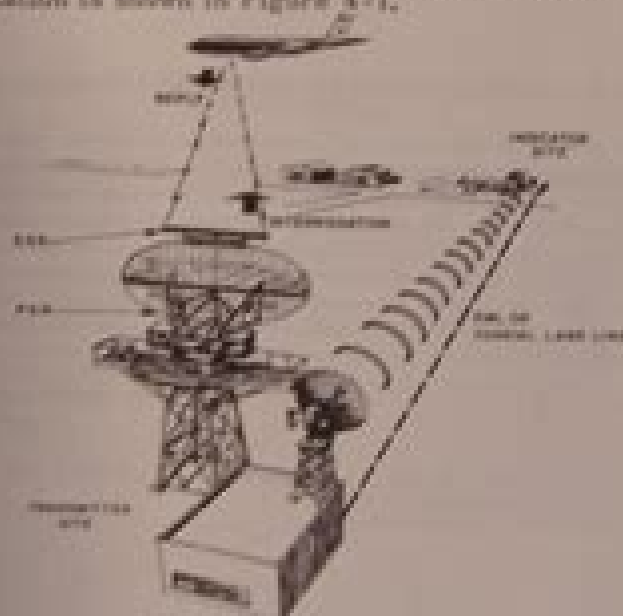


FIGURE 4-1 ATCRBS TRANSMITTER SITE  
(100-1000-000)

The SSR interrogates the KT 76/78 in one of two modes. These are referred to as Mode "A" or Mode "C" interrogations. The type of interrogation is determined by the spacing between two pulses transmitted by the SSR on a carrier of 1030  $\pm$  2 kHz. Each interrogation contains a third pulse at the same frequency which is not transmitted by the SSR but by an inert directional antenna which is located at the ground radar station. This pulse is transmitted 2  $\mu$ sec after the first pulse transmitted by the SSR. Mode "A" and Mode "C" interrogation characteristics are shown in Figure 4-2.

# Kt 76 Transponder Manual

**Victor M. Corman**



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