



Attention: John Kennedy
Subject: Position Location Datalink Description
Date: October 26, 2006
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Submitted: June 29th, 2006

SAIC is requesting the reinstatement of its FCC experimental license for a Position Location Datalink system, first granted in 1996, to support a major system upgrade to its Military Ground training system delivered overseas in 1997.

SAIC's Position Location Datalink is utilized in a Military Ground Training System. SAIC has delivered 3 of these datalink systems to foreign governments with proper export approvals.

In general the datalink system consists of one or two ground stations which provide communications between a central computer system; and "player units". Player Units reside on the soldiers or vehicle/tank systems and contain a GPS receiver for position location determination, an embedded computer, and a VHF datalink radio. The soldiers and equipment can be instrumented with MILES laser transmitters and detectors. The datalink then supports the transmission of the position location and other information back to the central operations computers for viewing and generation of reports.

The datalink uses a TDMA protocol with the ground station up-linking admin and correction data 1 per second and each player unit providing P/L and other data at different rates ranging from once per second to once per 120 sec. Message transmissions from Ground Stations are less than 62.5 ms and player unit messages to ground stations are less than 25 ms. The systems already fielded operate on the frequencies requested in this license renewal.

In no way does this system have any intended interaction with "little LEOS" systems.

Over the air testing in San Diego will involve a single ground station and fewer than 10 player units at any one time. OTA testing will be sporadic, but will generally consist of test scenarios lasting less than two hours at any one time. This may occur daily, but most likely will be limited to once or twice a week, starting in December and ending in April. Most of the testing will be concentrated during the February thru April time frame. SAIC has performed similar testing extending back to October of 1996, when the FCC license was first granted.

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