

EXHIBIT 1

1. The Complete Program of Research and Experimentation Proposed Including Description of Equipment and Theory of Operation.

TRW/ESD Sunnyvale desires to prototype and develop Communications Coordination and Control Centers, identified as Project C4, which have law enforcement and disaster recovery applications. The objectives of this proposed Research and Experimentation Project are to:

- Investigate the various means of communications which are of interest or have application to our potential customers.
- Identify the technologies necessary to integrate the desired means of communications into a Project C4 product which has marketing potential.
- Construct a Project C4 test bed.
- Conduct feasibility and demonstration tests to determine the utility of the Project C4 concept and customer interest in a Project C4 product. Feasibility testing will evaluate personal computer control and integration of various commercial telephone and radio equipment including INMARSAT.

2. The Specific Objectives Sought to be Accomplished.

Project C4 proposes to use small, state-of-the art PC's, company developed software and purchased software to manage the integration of various communication sources into a reliable and operator friendly, transportable control center. Types of communications under consideration for Project C4 include telephone, police, fire, ambulance and disaster control mobile radios, other existing 911 communications, and a SATCOM link for distant and backup communications. We intend to use the two INMARSAT-A units addressed in this FCC application to prove the viability of a Project C4 SATCOM link.

3. How the Program of Experimentation Has a Reasonable Promise of Contribution to the Development, Extension, Expansion, or Utilization of the Radio Art, or Along Lines Not Already Investigated

Not applicable to this license request. We are requesting authorization to continue operation of two commercially procured INMARSAT-A units in a company sponsored research project which may have market applications.

EXHIBIT 2

TRW Locations – Sunnyvale Divisions

