

McDonnell Douglas Radio Services Corp.
Attn: G. D. Foote, W140,302,3E
325 McDonnell Blvd.
Hazelwood, MO 63042

EXHIBIT I TO FCC FORM 442

11a) Program

We are using a short pulse coherent radar system to obtain accurate low frequency radar cross section measurement information. This type of system is essential to provide the necessary gating capability for elimination of returns originating outside the target area.

Equipment and Theory

The radar cross section measurement system is comprised of a Hewlett Packard model 8341B Synthesized Sweep Oscillator, and a Scientific-Atlanta model 1787 Pulse Modulator. The 1787 provides hardware gating capability for the elimination of returns originating from outside the target area. During pulsed operation, receiver gating is timed to capture only those returns that are originated from within the target area.

11b) Objectives sought during this experimental program:

- To develop specific shapes useful for radar cross section signature reduction in the 50 - 500 MHz frequency range
- To learn specific materials associated with the reduction of radar cross section signatures in the 50 - 500 MHz frequency range
- To learn of the techniques and tools involved in obtaining accurate radar cross section signature measurements in the 50 - 500 MHz frequency range

11c) This program will be conducted to provide information concerning the reduction of radar cross section of aircraft. We intend to develop the technical experience to produce aircraft with desired radar cross section characteristics measured in the 50 - 500 MHz frequency range.

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EXHIBIT II TO FCC FORM 442

Item 20

The applicant is a wholly owned subsidiary of McDonnell Douglas Corporation (MDC) and proposes to render a non-profit radio communication service to its parent corporation. MDC is engaged in the design, development and manufacture of aircraft, spacecraft, missiles, other aerospace products, and associated supporting equipment for commercial customers and the U.S. Government.

The applicant and MDC have entered into an agreement whereby MDC will provide the necessary equipment to support its radio communication requirements. However, the applicant will have full control of the use, operation and maintenance of such equipment in the same manner as if the equipment were owned by the applicant.

EXHIBIT III

Environmental Impact Statement: By investigation, using the "Radio Frequency Protection Guides" adopted in 1982 by the American National Standards Institute (ANSI), the applicant states that by the granting of this application there would not be a significant effect upon the environment.