

EXHIBIT NO. 1
Douglas R. Pohl d/b/a DataMarine

Description of Experimental Program and Public Interest Statement

Douglas R. Pohl d/b/a DataMarine ("Applicant") hereby seeks an experimental authorization for the purpose of conducting technical experiments and limited market studies of a proposed high frequency ("HF") mobile digital communications system serving ships at sea. This program could lead to the development of a commercially viable HF marine digital communications network. This will serve the public interest, convenience, and necessity by allowing ships to have an alternative means of communication. This will allow ship operators to make more efficient use of expensive satellite links by having a low cost HF alternative, and may also enable additional types of communications that are not practical now due to the high cost of satellite communications. The availability of an alternative HF digital network will also provide redundancy to the existing forms of ship-board communications (including satellites) thereby enhancing safety of life and property.

Applicant previously obtained an STA from the Commission (Call Sign KS2XAP) pursuant to which he conducted numerous technical and equipment tests. As a result of these tests Applicant has identified acceptable equipment and developed workable protocols to develop the proposed service. Applicant now wishes to conduct tests of the operation of the system in a real-world, working ship environment. There will be continued technical experimentation, but Applicant also seeks authority to conduct limited market studies pursuant to Section 5.206 of the Commission's Regulations. All transmitting equipment will be owned by Applicant, and the parties participating in this program will be advised that it is being conducted pursuant to a temporary, experimental authorization. The size and scope of the market studies will be limited. Specifically, Applicant proposes to construct only two coast stations (Everett, Washington and Dutch Harbor, Alaska) and to equip a maximum of 25 ships with mobile stations.

Accordingly, it is respectfully submitted that the public interest, convenience and necessity will be served by prompt and favorable action on this application.

EXHIBIT NO. 2
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Particulars of Operation
Response to FCC Form 442, Item 4

Frequency (kHz)	Base/Mobile Output Power	Emission Designators
4280.0, 4283.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
6413.5, 6434.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
8565.0, 9591.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
12838.5, 12841.5	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
16926.0, 16931.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
17139.0, 17224.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
19740.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D
22364.0, 22482.0	1,000/170 watts	3K00J2C;H2B;H2D/550HJ2B;J2D

These are the same frequencies which were previously authorized to Applicant under an STA (Call Sign KS2XAP) to conduct preliminary equipment tests, and at that time they were cleared by OET staff for potential conflict with government and other users.

Applicant also requests assignment of the same Selective Calling Numbers used under the previous STA, namely:

Bases: 1148 and 1149
Mobiles: Any 6 characters

EXHIBIT NO. 3
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Coast (Base) Station Locations
Response to FCC Form 442, Item 5

Applicant will conduct experimental operations from two coast stations, one located in Everett, Washington and the other located in Dutch Harbor, Alaska. These coast stations will communicate with mobile stations about ships operating in the North Pacific and Bering Seas. The particulars of the Coast Station site information are as follows:

Everett, Washington

North Latitude: 47.98341
West Longitude: 122.17307
Ground Elevation: 23 feet

Dutch Harbor, Alaska

North Latitude: 53.89382
West Longitude: 166.53672
Ground Elevation: 32 feet

EXHIBIT NO. 4
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Transmitter Equipment Information
Response to FCC Form 442, Item 13

Applicant will use the Javelin System 9000 HF Radio Telephone System manufactured by Racal Canada, Inc. This equipment is not yet type-accepted by the Commission. Based on the results of the tests conducted pursuant to the requested experimental authority, Applicant hopes to arrange with Racal for any requisite modifications to the equipment and application for FCC type-acceptance. It should be noted, however, that the RF characteristics of these units conforms to internationally recognized conventions, and that this equipment is used in several countries throughout the world.

EXHIBIT NO. 5
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Antenna Structure Information
Response to FCC Form 442, Item 15

Multiple antennas may be employed at each site, consisting of wire antennas (long wires, dipoles, delta loops, etc.) and vertical antennas (whips, vertical dipoles, etc.). Maximum antenna heights will typically be between 50 and 75 feet, but in no case will the highest point of any antenna used pursuant to this experimental authorization extend more than six meters above an existing structure.