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An Electromagnetic Interference Study of Potential Transmitter Sites for the HF Active Auroral Research Program (HAARP)

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Abstract: This report presents the results of Electromagnetic Interference (EMI) measurements conducted by the Naval Research Laboratory in June of 1991. This study examined a number of potential sites for the location of the proposed High Frequency Active Auroral Research Program (**HAARP**) transmitter facility. The proposed **HAARP** facility will consist of a large planar array of antennas excited by phased high power transmitters operating in the lower portion of the HF band (2.8 to 8 MHz). Several candidate locations were identified for study in the vicinity of Fairbanks, Alaska. The magnitude of EMI in the population centers and on other commercial and public facilities in the vicinity of Fairbanks from the high power transmitter is a major factor in the site selection process for **HAARP**. The EMI investigations were conducted in two phases. For Phase I of the study, EMI measurements were conducted at two receiver locations using an airborne transmitter at thirteen potential **HAARP** sites. The results from the Phase I measurements were examined and the two most promising candidate transmitter locations were selected for more comprehensive measurements during Phase II. For Phase II, comprehensive EMI measurements were made for each of the two candidate transmitter sites. Field strengths were measured at a variety of receiver locations that are representative of the impact area for the EMI from **HAARP**. The results for both the Phase I and Phase II measurements are presented in this report...

Electromagnetic interference, Antennas, Electromagnetic radiation, Electromagnetic waves, Electromagnetic propagation, Radiating systems

Limitations:	✓ APPROVED FOR PUBLIC RELEASE
Description:	Interim rept.
Pages:	41
Report Date:	19 JUL 93
Report Number:	A347762

Keywords relating to this report:

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