

Form 442 Confirmation Number: EL132432

Form 442 File Number: 0172-EX-PL-2007

Attachment: Form 442 Question 7: Experimentation Description

Subject: HF DRM Broadcast Feasibility

Date: April 9, 2007

SCOPE:

To determine the feasibility of using DRM for broadcast in the HF band.

ACTION:

A request for experimental license authorization will be submitted for the purpose of obtaining a grant to determine the use of DRM for HF broadcast operations.

DETAIL:

A TPO of 1000 watts is suggested. From an existing list of vertical antennae, one version having a gain of 5dBi has been chosen. The calculated EIRP is expected to be ~1995 watts, based on a TPO of 1000 watts and a line loss of ~2dB.

OBJECTIVE:

Over the next five (5) years, a study of the expected escalation in propagation will be conducted. This period will allow the observation of signal behavior up into the peak of the next expected sunspot cycle.