From: Walt Waldorf [waldorf@coas.oregonstate.edu]
Sent: Tuesday, May 10, 2005 2:53 PM
To: John Kennedy
Subject: 5 yr. justification

Dear Sir,

Thank you for your helpful call this morning. For your information, I will be applying for 7 more licenses in the near future – in the 12-13.5MHz range (not to be confused with the below applications). I'll enter the center frequency as you've suggested with the appropriate bandwidth. By way of explanation for all these applications – the lower frequency (4-5MHz) has greater range, and the higher frequency (12-13.5MHz) provides greater resolution.

Sorry if I've confused things with the way I interpreted the entry forms to date - I'm learning.

Reference application form 442 files:

0130-EX-PL-2005

0148-EX-PL-2005

0153-EX-PL-2005

0155-EX-PL-2005

0156-EX-PL-2005

0159-EX-PL-2005

Research Objectives 5 Year Justification:

Mapping of the ocean surface currents along the Oregon coast is the primary objective. This research is on going, hence the request for a 5 year license. Present funding (grant #0237710 below) extends through the year 2008. Pending proposals extend research objectives to the year 2010.

Research conducted under the following National Science Foundation grants:

Grant#

9907854 Collaborative Research: Coastal Ocean Advances in Shelf Transport (COAST)

0237710 Collaborative Research: Productivity, Biogeochemical Transformations and Cross-Margin Transport in an Eastern Boundary Buoyant Plume Region

0000734 Collaborative Research: GLOBEC: Mapping the Evolution of Mesoscale Jets and Eddies in the Upwelling Ecosystem off Cape Blanco, Oregon, Using Long-Range High Frequency Radar

For clarification frequencies (six total – same for all applications listed above).

Frequency	Station Class	Output Pwr/ERP	Mean/Peak
Frequency	Emission	Modulating	
MHz Tolerence	Designator	Signal	
4.375-4.425	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep
4.445-4.495	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep
5.525-4.575	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep
4.555-4.605	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep
4.575-4.625	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep
4.775-4.825	FX	90W/40W	
P	0.0010%	50K0P0N	FM Sweep

Regards, Walt Waldorf

Walt Waldorf

College of Oceanic and Atmospheric Sciences

Oregon State University

TEL (541) 737-4429

waldorf@coas.oregonstate.edu
