

EXHIBIT 1
FRN: 0010388445
BNT MARINE ELECTRONICS
26FEB2004

REFERENCE:
APPLICATION FOR EXPERIMENTAL LICENSE
FCC FORM 442

ITEM #7:

“ If all the answers to Items 4, 5, 6 are “NO”, include as an exhibit a narrative statement describing in detail the following items:”

- “ a. The complete program of research and experimentation proposed including description of equipment and theory of operation.”
- “ b. The specific objectives sought to be accomplished.”
- “ c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, or is along line not already investigated.”

NARRATIVE:

- A. BNT MARINE ELECTRONICS’ PROGRAM OF RESEARCH RELATING TO THIS APPLICATION, IS TO TEST AND SELECT NON-EXPERIMENTAL OEM SHIPBOARD RADAR SYSTEMS FROM VARIOUS MANUFACTURERS (INCLUDING JRC, FURUNO, KODEN/SITEX AND RAYMARINE), AND TO DEVELOP A USER INTERFACE SYSTEM FOR THE SELECTED RADAR SYSTEM(S) TO OPERATE WITH BNT MARINE ELECTRONICS’ MARINE NAVIGATOR SYSTEMS. THE RADAR ANTENNA(S) WILL BE LOCATED AT THE CENTER OF THE FLAT TOP ROOF OF A TWO STORY BUILDING AT A HEIGHT OF NO MORE THAN 2 METERS ABOVE THE HIGHEST POINT ON THE ROOF. THE ANTENNA’S MAJOR LOBE WILL BE AT LEAST 50 METERS FROM PERSONNEL. ALL RADAR SYSTEMS TO BE TESTED WILL OPERATE IN THE 9.2 TO 9.5 GHZ RANGE (MOST SYSTEMS ARE AT 9410 MHZ), WITH PEAK EFFECTIVE RADIATED POWER LEVELS OF 2 TO 25 KW. TESTING WILL TAKE PLACE AT 30 SUDBURY ROAD, ACTON, MASSACHUSETTS 01720 (COORDINATES: 42° 26’ 18.240” N, 071° 25’ 48.924” W – WGS84).
- B. THE PROJECT OBJECTIVE IS TO DEVELOP AND PERFECT THE USER INTERFACE OF BNT MARINE ELECTRONICS’ RADAR SEGMENT OF MARINE NAVIGATION SYSTEMS, UTILIZING ACTIVE LIVE RADAR DATA AT THE ENGINEERING SITE. CONTINUED RADAR PRODUCT TESTING WILL TAKE PLACE FOLLOWING THE DEVELOPMENT PHASE OF THIS PROJECT.
- C. THE PROGRAM OF EXPERIMENTATION IS EXPECTED TO CONTRIBUTE TO THE ART OF RADIONAVIGATION WITH INNOVATIVE APPROACHES TO BOTH RADAR DISPLAY METHODS AND USER ACCESS TO RADAR DATA.

END OF EXHIBIT 1
26FEB2004