DIST: AD(D) QAR QER IS GP WRE FILE 132

RR

DE £2014 3000547

ZNY MMNSH

R 2705462

FM DSD

TO DD OF C(S) RAN CANBERRA

INFO IS GROUP WRE

ZEM

~~C O N F I D E N T I A L COMINT CHANNELS~~

SHOAL BAY BUFFER ZONE

(YOUR LETTER 12/1/1/16 OF 13TH OCTOBER)

HEREWITH OUR COMMENTS ON POSSIBLE EFFECTS OF PROPOSAL TO CONSTRUCT A MAJOR ROAD ACROSS SOUTHERN PART OF SHOAL BAY BUFFER ZONE.

2. IT SHOULD BE REMEMBERED THAT THE SHOAL BAY PENINSULA IS AN EXTREMELY QUIET RADIO SITE AND ALMOST ANYTHING THAT IS DONE TO INCREASE HOMAN HABITATION OF THE AREA MUST INEVITABLY DEGRADE THE LOW NOISE ENVIRONMENT.

3. HOWEVER, MOTOR VEHICLES MOVING ALONG THE PROPOSED ROAD 2.6 MILES FROM THE RECEIVING STATION SHOULD NOT CAUSE A SIGNIFICANT DEGRADATION AND IT WOULD BE DIFFICULT TO BASE A CASE FOR REJECTING THE ROAD PROPOSAL SOLELY ON THE GROUNDS OF ELECTRICAL NOISE CREATED BY TRAFFIC.

4. IF AN OVERHEAD POWER LINE IS INSTALLED ALONG THE ROAD THERE MAY BE SOME DEGRADATION. WE WOULD PREFER TO SEE ANY NEW POWER LINE ENGINEERED TO THE STANDARD OF THE

EXISTING 66KV LINE WHICH IS LOCATED FURTHER SOUTH ON THE PENISSULA. NOISE AT 5MHZ FROM THIS LINE IS INAUDIBLE AT A DISTANCE OF Ø.4 MILE AND THIS IS BELIEVED TO BE DUE IN PART TO:-

(A) THE USE OF ADEQUATE INSULATOR DIMENSIONS

(B) EXTREMELY EFFECTIVE EARTHING OF THE STEEL TOWERS AND THE NEAREST SUBSTATION. (SEE PARA 5.2 OF CPD(T) 127 AND THE MAP OF FIGURE 5)

5. BY WAY OF CONTRAST A RUM OF 11 KV LINE ON STOBIE POLES NEAR THE SOUTH BOUNDARY OF COONAWARRA WEST IS QUITE NOISY AND THIS TECHNIQUE WOULD NOT BE ACCEPTABLE WITHIN THE SHOAL BAY BUFFER ZONE. WE WOULD THINK THEREFORE THAT YOU SHOULD RETAIN SOME CONTROL OVER THE QUALITY OF ANY SUCH HIGH TENSION LINE PASSING THROUGH YOUR AREA.

6. RESIDENTIAL AND/OR INDUSTRIAL DEVELOPMENT WITHIN SHOAL BAY BUFFER ZONE AND ALONG THE NEW ROAD WOULD DEFINITELY DEGRADE THE QUIET ENVIRONMENT. LOW VOLTAGE DISTRIBUTION SERVING ELECTRICAL APPLIANCES, MACHINERY, AND POSSIBLY LATER, EVEN ARC WELDING EQUIPMENT, WOULD PRESENT A SITUATION VIRTUALLY IMPOSSIBLE TO CONTROL WHILST SIGNIFICANTLY DEGRADING THE ENVIRONMENT. THE EFFECT OF THIS DEGRADATION WOULD BE TO PROGRESSIVELY RESTRICT ACCESS TO THE WEAKER LOW FREQUENCY TASKS WHICH CURRENTLY ARE SETTING THE DESIGN PARAMETERS FOR THE STATION.

405 405

£2014