To: **HE** via DHE, FMOI/II then Eng file cc HD

From: **EO**

1 September 1995

COMMISSIONING OF ILR SHAFTESBURY L179 GOLD RADIO 97.4 MHz

COVERAGE.

1. General Observations. Coverage is much as expected with the towns of Shaftesbury, Gillingham, Mere, Sturminster Newton and Stalbridge all appearing served from our limited measurements. The towns of Wincanton, Tisbury and Blandford Forum are unserved as indicated in the coverage brief.

2. Implementation of Cleared Parameters. The prediction was based on an omnidirectional aerial and an ERP of 200 Watts (100/100), whilst the aerial in use has a nominal VP to HP split of 6dB (100W VP / 25W HP) and is directional with a 10dB VP null to the south (see Attachment 1 - 2 for aerial pattern).

3. Feedback to Frequency Planning. The average of 31 points on or near the predicted 54dB (μV/m) contour is 51 dB (μV/m) HP and 55 dB (μV/m) VP this compares to the expected of 48 dB (μV/m) HP / 51 dB (μV/m) VP allowing for the implementation of the aerial. Several of the contour measurements were made on the top of hills and this would account in part for the slightly higher levels than expected.

4. Resultant Population Figure. As per RPG submission, 37.6k using 1981 census data. The coverage brief gave a figure of around 30k adult 15+.

EQUIPMENT.

5. All equipment complies with the Engineering Code. Equipment measurements are shown in Attachment 3, Test set display outputs are shown in attachment 4.

6. This is an sbs installation, with the transmitter equipment rack housed in the studio complex. Standby in the event of failure is by a Guardian change over unit and CD player. (note the studio is unmanned at night and runs from a computer, hence the need for a backup CD).

7. Site access is by road and is easy to find next to the Vodaphone tower. The keys to the equipment rack are held in the studio.

ADMINISTRATION.

8. Commissioning and field measurements were carried out by EO and EO temp on the 7 and 8 June 1995.

EO

Attachments

1. Coverage maps and aerial pattern.
2. Field measurements.
3. Equipment measurements.
4. Test set displays.
5. Rack diagrams.
6. Photographs.