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MEMORANDUM

14 May 1952

TO: [ ] and [ ]

FROM: [ ]

SUBJECT: Reception Test of HIGrubby at Brindisi, 4-8 May, inclusive

Radio Used: New twelve tube Pangama (Italian make) - high fidelity and receptivity

1. May 4 - The first broadcast was heard distinctly at 1230 Z on 48.3 meters and ended at 1255. The second broadcast started at 1305 Z and was just as distinct as the first in addition to being in a less crowded band (39.7 meters) than the previous broadcast. The third scheduled consecutive program was not heard.

The scheduled broadcast at 1730 Z was not heard, but the next two broadcasts, one at 1800 on 43.1 meters and the other at 1830 on 39.7 meters were both heard fairly distinctly even though there was some static and one or two intermittent telegraph stations interfering.

None of the programs scheduled after 2000 were heard. It might be added that the 49 meter band is about the most crowded band of all, and attached to this memorandum is a tabulation showing the number of radio transmissions between the various meter bands at various times corresponding to the time of our transmissions over a five day period.

2. May 5 - There was excellent reception of the 1230 Z broadcast on 48.0 meters, but nothing was heard from the scheduled transmissions on 40 or 30 meters at around 1300 or 1330 Z.

The transmission at 1730 Z was audible but barely intelligible because of static and interference from other broadcasts. It is very doubtful that the static was deliberate jamming because of its character and irregularity. At 1751 the scheduled broadcast came in clearly on 43.2 meters. Two telegram signals almost drowned out the program completely for a few minutes but fortunately they were of short and intermittent duration. The next transmission was heard on 39.7 meters at 1827 when the program had evidently been under way for several minutes. This reception was very weak and hardly intelligible. It was over at 1843.

The 2000 broadcast on 48.2 was just barely heard for a few minutes before it was completely overwhelmed by two other stations. No other transmission of HIGrubby could be heard that evening in spite of constant searching until 2130 Z.

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3. May 6 - None of the first three transmissions could be heard (1230 Z on 49 m., 1300 Z on 33 m and 1330 on 30 m).

The scheduled program at 1730 Z was not heard. At 1800 the program came in clearly at 43.2 meters and ended at 1818 Z. The next scheduled broadcast began at 1825 and intelligible most of the time except when it intermittently faded out and was overcome by a telegraph station and whistling effect.

It was not possible to receive any sound from the 2000 broadcast. At 2030 the program came in fairly clear on 43.2 meters as scheduled but it was rather weak. The next broadcast came in stronger at 2045 on 39.7 and ended just as strong even though some static began to interfere somewhat.

4. May 7 - A small Telefunken radio - 6 tubes were borrowed for the next two days so as to better approach the quality of radios used in Kashiokland; however, this radio was also of high receptivity and sensitivity so that it received everything that was clear on the Tangama, but not those programs which were barely intelligible.

The 1230 program was barely intelligible because of the interference of two stations that were practically superimposed on H. Grubty's transmission. The transmissions between 1300 and 2400 Z could not be detected.

The transmission at 1730 was heard clearly at 45 meters and ended just as strong at 1755. Nothing could be received from 1800 to 1900 Z.

At 2000 the scheduled transmission was received indistinctly so that although it could be understood with difficulty on the Tangama it could not be detected at all on the Telefunken. Nothing else could be received that night up to 2200 Z.

5. May 8 - The only two programs that could be detected on this day were the transmissions on 45 meters at 1737 Z and on 45 meters at 2000, both of which were clear and could also be received intelligently on the Telefunken.

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Statistics on the Number of Radio Stations between Meter Bands during Approx. Times of HIGrabby Broadcast (Brindisi-Receiving)

|    | 4th of May |       |       | 5th of May |       |       | 6th of May |       |       | 7th of May |       |       | 8th of May |       |       |
|----|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|------------|-------|-------|
|    | 1730Z      | 1900Z | 2000Z | 1300Z      | 1730Z | 2000Z | 1300Z      | 1800Z | 2000Z | 1300Z      | 1800Z | 2000Z | 1330Z      | 1900Z | 2000Z |
| 51 |            |       |       |            |       | 3     | 1          | 4     |       | 1          |       |       |            |       |       |
| 50 | 6          | 6     | 5     | 1          | 6     | 4     | 2          | 6     | 5     | 1          | 4     | 6     | 3          | 6     | 7     |
| 49 | 7          | 4     | 7     | 1<br>Jan   | 7     | 4     | 2          | 4     | 6     | 5          | 5     | 6     | 2          | 4     | 7     |
| 48 | 3          | 3     | 1     | 1          | 2     | 0     | 1          | 1     | 6     | 1          | 2     | 3     | 2          | 3     | 4     |
| 47 | 1          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 4     | 1          | 1     | 0     | 2          | 1     | 0     |
| 46 | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     |
| 45 | 0          | 0     | 0     | 1          | 1     | 0     | 1          | 1     | 0     | 0          | 1     | 0     | 1          | 1     | 0     |
| 44 | 0          | 2     | 0     | 0          | 0     | 0     | 1          | 1     | 0     | 1          | 0     | 1     | 1          | 1     | 0     |
| 43 | 1          | 1     | 0     | 1          | 1     | 1     | 3          | 2     | 1     | 1          | 3     | 5     | 2          | 1     | 3     |
| 42 | 2          | 3     | 5     | 0          | 4     | 5     | 0          | 3     | 2     | 4          | 6     | 6     | 4          | 3     | 5     |
| 41 | 4          | 1     | 3     | 0          | 3     | 2     | 0          | 4     | 6     | 1          | 2     | 5     | 1          | 2     | 6     |
| 40 | 0          | 0     | 0     | 1          | 0     | 0     | 0          | 1     | 2     | 0          | 0     | 0     | 0          | 0     | 0     |
| 39 | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     | 1          | 1     | 0     |
| 38 | 0          | 0     | 0     | 0          | 0     | 0     | 1          | 0     | 2     | 0          | 0     | noise | 0          | 1     | 0     |
| 37 | 1          | 0     | 1     | 0          | 1     | 0     | 0          | 0     | 0     | 0          | 0     | "     | 0          | 0     | 0     |
| 36 | 0          | 0     | 0     | 0          | 0     | 0     | 0          | 0     | 0     | 1          | 0     | "     | 0          | 0     | noise |
| 35 | 0          | 0     | 2     | 0          | 0     | 0     | 2          | 0     | 0     | 0          | 0     | 4     | 2          | 0     | "     |
| 34 | 0          | 2     | 2     | 0          | 0     | 0     | 0          | 0     | 3     | 0          | 1     | 0     | 1          | 1     | 2     |
| 33 | 0          | 1     | 1     | 0          | 0     | 0     | 1          | 1     | 2     | 2          | 0     | 5     | 1          | 1     | 1     |
| 32 |            |       |       |            |       |       |            |       |       |            |       |       |            |       |       |
| 31 | 5          | 3     | 2     | 3          | 0     | 5     | 4          |       | 0     | 9          | 3     | 3     | 2          | 4     | 4     |

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