

The Joint Radio Committee of the Nationalised Power IndustriesRELIABILITY ASSESSMENT AND FAULT INCIDENCE REPORTING OF MICROWAVE SYSTEMS

With the increasing use of microwave radio systems, it is considered desirable to obtain statistics relating to the performance and reliability of those systems operated by the nationalised power industries. It is envisaged that this information will be particularly useful to Boards interested in the future use of microwave systems for the transmission of speech and/or data. The co-operation of Boards who are operating microwave systems in providing this information is essential.

In order to obtain the information, the attached form has been designed to enable users to provide the essential data with a minimum of effort. It is presumed that some type of fault recording system will be in use within each organisation, and it should be relatively simple to extract the appropriate information as called for on the form.

It should be emphasised that it is not intended to obtain accurate statistics relating to the technical characteristics of the equipment, but merely to obtain sufficient information to enable a realistic appraisal to be made by non-specialist personnel.

The information will be collated by the Joint Radio Committee, and when processed will be distributed within the nationalised power industries. The aims will be:-

1. To provide a comparison of the relative reliabilities between systems using duplicated radio transmitters and receivers, as against those using unduplicated radio equipment.
2. To determine any differences between the performances of 1.5 GHz and 7 GHz equipments.
3. To assess the relative merits of equipments produced by different manufacturers.
4. To obtain statistics relating to the reliability of microwave radio systems as compared with G.P.O. rented land lines.

The forms should be submitted on 1st January and 1st July each year to the Secretary of the Joint Radio Committee, "nil" returns being made if appropriate. Reminders will be issued when the forms are required. The statistics will be treated as confidential within the nationalised power industries, and will not be divulged to manufacturers or others except in a generalised form.

Further information on this subject may be obtained from:

The Secretary,  
The Joint Radio Committee of the Nationalised Power Industries  
C/o The Electricity Council,  
30 Millbank,  
LONDON, S.W.1.

D24/1/2/CED  
7th February, 1969

FAULTS ANALYSIS

PERIOD: From ..... To .....

E TO:-		NO. OF CHANNEL FAILURES (NOT DUE TO SYSTEM FAULT)	OUT OF SERVICE DATE AND TIME		OUT OF SERVICE TIME IN CHANNEL HOURS	NOTES (INCLUDE BASIC REASON FOR FAULT)
OTHER FAULTS	FROM		TO			

in the system, either singly or in groups.

encountered or where normal operation becomes unreliable.

..... BOARD

LINK		MANUFACTURER AND YEAR	NO. OF REPEATERS	NO. OF EQUIPPED CHANNELS	NO. OF SYSTEM FAILURES DU			
FROM	TO				TRANSMITTERS	RECEIVERS	COMMON MULTI- PLEX EQUIPMENT	POWER SUPPLIES

Definitions

A link is a path between points where circuits are extracted from  
Failure of system or channel is either where loss of signals is