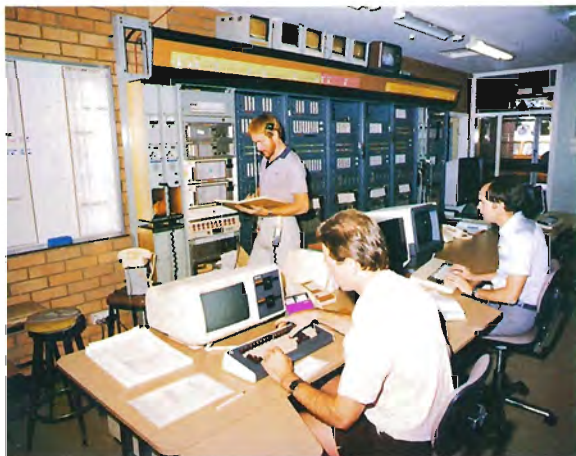




Equipment Repair

- The advanced technology of the components used in microwave systems requires sophisticated technical expertise and test equipment for its repair. As a result, all faulty equipment is replaced on site on a unit basis and repair is effected at the centralised repair centre under controlled conditions. This ensures that a high standard of repair is maintained and provides economies in expensive spare components.

With the exception of Mt Yokine, Sawyers Valley, Mt Bakewell and Northam microwave radio sites, Mt Yokine staff in general do not undertake field maintenance.



Route controllers monitor all broadband radio systems around the clock.



Staff

Mt Yokine has a staff of 22 people functionally divided as follows:

Management and Clerical	- 3
Route Surveillance and Control	- 8
Equipment Repair	- 9
Station Field Maintenance	- 2



Top section of the tower

Telecom Public Relations

Perth 1984



Mt Yokine Radio Terminal

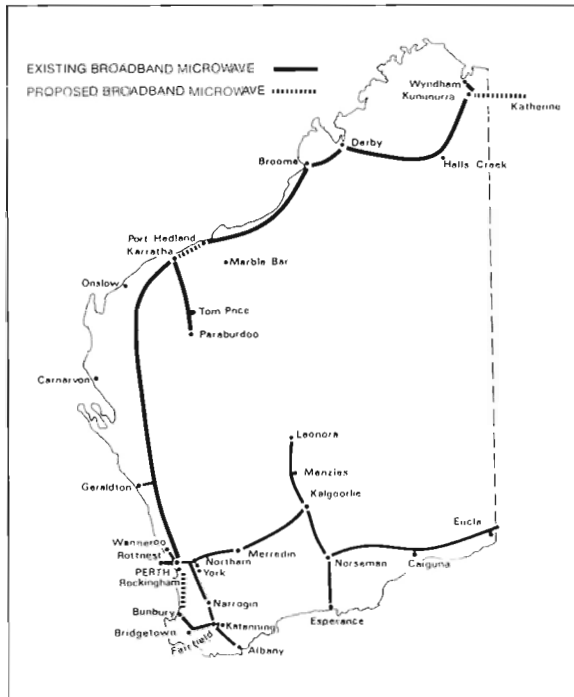


Mt Yokine Radio Terminal is the nerve centre for all microwave radio systems in the West Australian telecommunications network. These systems provide the means by which telephony, data and television circuits can be interconnected throughout the state and also very importantly, interstate.



Mt Yokine Radio Terminal

The Mt Yokine Radio Terminal is located at one of the highest points in the Perth metropolitan area west of the Darling Scarp. The ground height of 79 metres above sea level coupled with the 69 metre tower provides excellent radio path clearance to nearly all points in the Perth area and outlying districts.



WA Microwave systems

The microwave systems that terminate at Mt Yokine are:-

- Perth - Northam
- Perth - Fairfield - Albany
- Perth - Warreroo
- Perth - Rottneest



A system Mt Yokine - Wellington is planned to extend the proposed East - West digital radio circuits into the city.

Since the terminal was established in 1964 rapid expansion of the State's microwave network has taken place. This expansion has included the construction of a number of very remote radio links, which in common with all microwave radio systems, are continuously monitored and controlled on a 24-hour basis from the terminal.

The remote microwave systems monitored by Mt Yokine are:-

- Northam - Norseman - Eucla
- Norseman - Esperance
- Kalgoorlie - Leonora
- Bunbury - Bridgetown - Fairfield
- Fairfield - Katanning
- Wellington - Karratha
- Karratha - Paraburdoo
- Port Hedland - Derby - Kununurra

Functions

Mt Yokine Radio Terminal has two functions to perform:-

- Route Surveillance and Control
- Equipment Repair



Route Surveillance and Control

- Continuous monitoring of supervisory alarms from all microwave sites is performed by experienced radio personnel ensuring that maintenance and repair activities are controlled and co-ordinated effectively.
- In addition, detailed information of equipment configurations, site and access details, power plant capacities etc, of each location are held at Mt Yokine to enable immediate assessment of any emergency and facilitate remedial action with minimum delay.
- Route controllers also disseminate maintenance requirements and information to field maintenance staff who may not have extensive training on radio equipment. Field maintenance is generally performed by the Operations Districts.



All of the State's broadband radio equipment is repaired at Mt Yokine.