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## FIXED RADIO COMMUNICATION SERVICE INITIAL PLANNING APPLICATION

Name of applying company, company registration certificate No. and date of issue										
Postal address of applicant					Name, title, telephone and fax number, e-mail address of individual responsible					
Name of site			Link path [1]		Expected date of commencing operation			Expected date of terminating operation		
Antenna location (address and exact description)					Equipment location address					
Longitude [2]		Latitude [2]		Terrain height above sea level, m	Antenna model, name of manufacturer					
Kind of antenna			Linear dimensions[3]		Gain, dBi [4]	Radome attenuation dB [5]		Radiation pattern [6]		
Height above terrain, m			Bearing [7]							
Manufacturer of feeder				Type designation of feeder given by manufacturer			Length of feeder, m	Feeder attenuation, dB/100m	Additional attenuation, dB [8]	
Manufacturer of equipment				Type designation of equipment given by manufacturer			Capacity [9]			
Transmitting frequency, MHz [10]	Power dBm [11]	Pol [12]	Branching attenuation, dB dB [13]	Receiving frequency, MHz [10]	U <sub>nom</sub> , dBm [14]	S/N, dB [15]	Tr., dBm [16]	Pol [12]	Branching attenuation, dB [13]	Diagram [17]
Configuration of station [18]				Nature of data transmitted [19]						
Type of signal [20]			Method of modulation [21]		Designation of emission [22]			Bandwidth of emission		
Name of opposite site					Address of opposite site					
Additional information:					Applicant's name, title					
					Signature, date					

Please see explanations on the back of this form.  
The State Telecommunication Inspection will be grateful for any additional information presented on this application.

## LICENCE TERMS AND CONDITIONS

### FILLING-IN THE APPLICATION

"Radio frequency spectrum utilisation by judicial bodies and individuals is permitted only after receiving a written permit (licence)." (*Article 4, Law on Telecommunications*)

"... Throughout the territory of the Republic of Latvia state supervision on radio frequency spectrum utilisation as well as procurement, import, design, construction, installation and utilisation of wireless means of communication is carried out by the Latvia Telecommunication State Inspection." (*Deliberation No. 264, 7 October 1991, Council of Ministers, Republic of Latvia*).

The application should be complemented with a link path diagram showing locations of stations and plans of antennae and equipment location on-site. Investigation of incomplete applications may be suspended by the Latvia Telecommunication State Inspection till reception of full data.

*A separate application should be made for each fixed link station.*

1. Names of first and last station in a route.
2. Geographical co-ordinates should be given in degrees, minutes, seconds. WGS-84 map datum.
3. Dimensions of antenna should be given. In case of a parabolic antenna it's diameter should be given.
4. In the direction of maximum gain, referred to an isotropic (point) radiator.
5. In case the antenna has a protective cover (radome), it's attenuation should be given. Not to be filled-in if already included in antenna gain.
6. Spatial radiation pattern (gain referred to maximum versus offset angle). It should be presented graphically (preferably) or analytically for coinciding as well as cross polarisation.
7. Direction of maximum gain in degrees clockwise from North.
8. External attenuator used for several reasons, e.g., to avoid overload at the input of a receiver.
9. System capacity - number of analogue channels or data transmission rate in Mbit/s for digital equipment.
10. The preferred transmission or reception frequency or frequency band should be given. For a receive-only station a zero transmission frequency should be given and for a transmit-only station a zero receiving frequency should be given.
11. Transmitter output power in dBm (0 dBm corresponds to 1mW).
12. Polarisation of the receiving and transmitting antenna.
13. Attenuation in junction points (e. g. in separation filters) of signal path for receiving and transmitting.
14. Nominal input signal level of the analogue receiver.
15. Signal-to-noise ratio or Carrier-to Interference Ratio (CIR) at nominal input signal level.
16. Receiver input signal threshold level. For digital equipment at Bit Error Rate BER =  $10^{-3}$ .
17. Adjacent channel selectivity must be given and a block-diagram of the radio frequency part of the transmitting and receiving station with operating frequencies and signal levels shown at the main points with a brief description of the operating principle of the equipment's radio frequency part.
18. The number of operating and backup equipment should be given, e. g. "1+0" for one set of operating equipment with no backup.
19. Information carried over the link: voice, data, video, audio, etc.
20. Type of signal, e.g. analogue, digital, video, etc.
21. Modulation method, e. g. QPSK.
22. Class of emission as designated in Article 4 and Appendix 6, ITU Radio Regulations.