

CSIRO DIVISION OF RADIOPHYSICS

THE AUSTRALIA TELESCOPE

AT / 20.1.1 / 028  
G.J. Nelson  
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Implications of including the  
internationally protected bands 2690-2700 MHz  
and 10.6 - 10.7 GHz in the AT bands

2690 - 2700 MHz band

The existing L.O. and IF systems will handle this band. It is doubtful however if the feed, polarizer, or the LNA will be able to do so.

10.6 - 10.7 GHz band

An additional pair of steps on the X band LO at 7.99 and 8.01 GHz will accommodate this band. Again however it is very unlikely that the feed, polarizer or LNA will do so. If this band were seen only as an LBA band for S/X operation then the off-axis X band system could be designed especially for this frequency. There would however be little point in doing this if 2.7GHz could not also be achieved at S band.

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