



**Antennas • Filters**

**Kathrein Inc., Scala Division**

P.O. Box 4580

Medford, OR 97501 USA

Phone: 541-779-6500

Fax: 541-779-6575

mail@kathrein.com

www.kathrein-scala.com

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Mr. Mark Humphrey, C.E.  
Email: [mark@xy-mark.com](mailto:mark@xy-mark.com)  
The Trustees of the University of Pennsylvania  
3025 Walnut Street  
Philadelphia, PA 19104-3402

Ref: WXPB Philadelphia, Pennsylvania  
BMPED-20130906AAS

Dear Mr. Humphrey,

Thank you for your brief describing the installation of the antenna and feedline for FM station WXPB on the same structure with existing directional antenna system for FM station WXTU.

It appears that the vertical separation of 85 meters is more than sufficient to prevent any significant effect to the directional characteristics of the WXTU antenna system. Further, the location of the WXPB coax feed line, inside the tower, should sufficiently shield its effect on the directional radiation pattern.

This opinion carries no performance guarantee and is based solely on the data provided by WXPB and the practical experience of our sales engineers. It is by no means a comprehensive analysis and Kathrein-Scala recommends WXPB to engage the services of a qualified communications consulting firm for a definitive evaluation. The furnished data has not been verified by Kathrein-Scala for completeness or accuracy.

If we may be of further assistance, please do not hesitate to contact us.

Best regards,

Michael Wm. Bach, Sales Engineer  
Kathrein Inc., Scala Division  
Email: [mbach@kathrein.com](mailto:mbach@kathrein.com)  
Ph: (541) 779 6500 Ext. 5128; Fx: (541) 779 6575  
Direct: (541) 618 5128  
MWB/jy