



**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

October 5, 2010

Mr. William W. McCutchen III  
1551 Queens Road  
Los Angeles, CA 90069  
Email: wwmccutchen@yahoo.com

**Ref: KMDR – McKinleyville, California  
BMPH-20100604AFZ**

Dear Mr. McCutchen,

Thank you for your documentation brief and tower elevation drawing describing the proposed installation of the antenna array for station KMDR on the same structure with the three directional antenna arrays belonging to FM Stations K240DX, KNDZ & K274AM.

Our observation is that the vertical separation of more than 8 meters to the nearest directional antenna array should be sufficient to prevent any significant distortion to the directional characteristics of the directional radiation patterns. The placement of your feed line on the side of the tower away from the co-sited antennas, should also prevent any chance of directional pattern distortion.

This opinion carries no performance guarantee and is based solely on the data provided by KMDR and the practical experience of our sales engineers. It is by no means a comprehensive analysis and Kathrein-Scala recommends KMDR 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  
Ph: (541) 779 6500 Ext. 5128; Fx: (541) 779 6575  
Direct: (541) 618 5128  
MWB/jy

Cc: Mr. Frank White, Consultant  
Email: pacowwhite@hotmail.com