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August 2013
Long Form Application for BNPFT-20030317KLO
Ariel, Washington Channel 248D
LPFM Preclusion Study

Affected Market

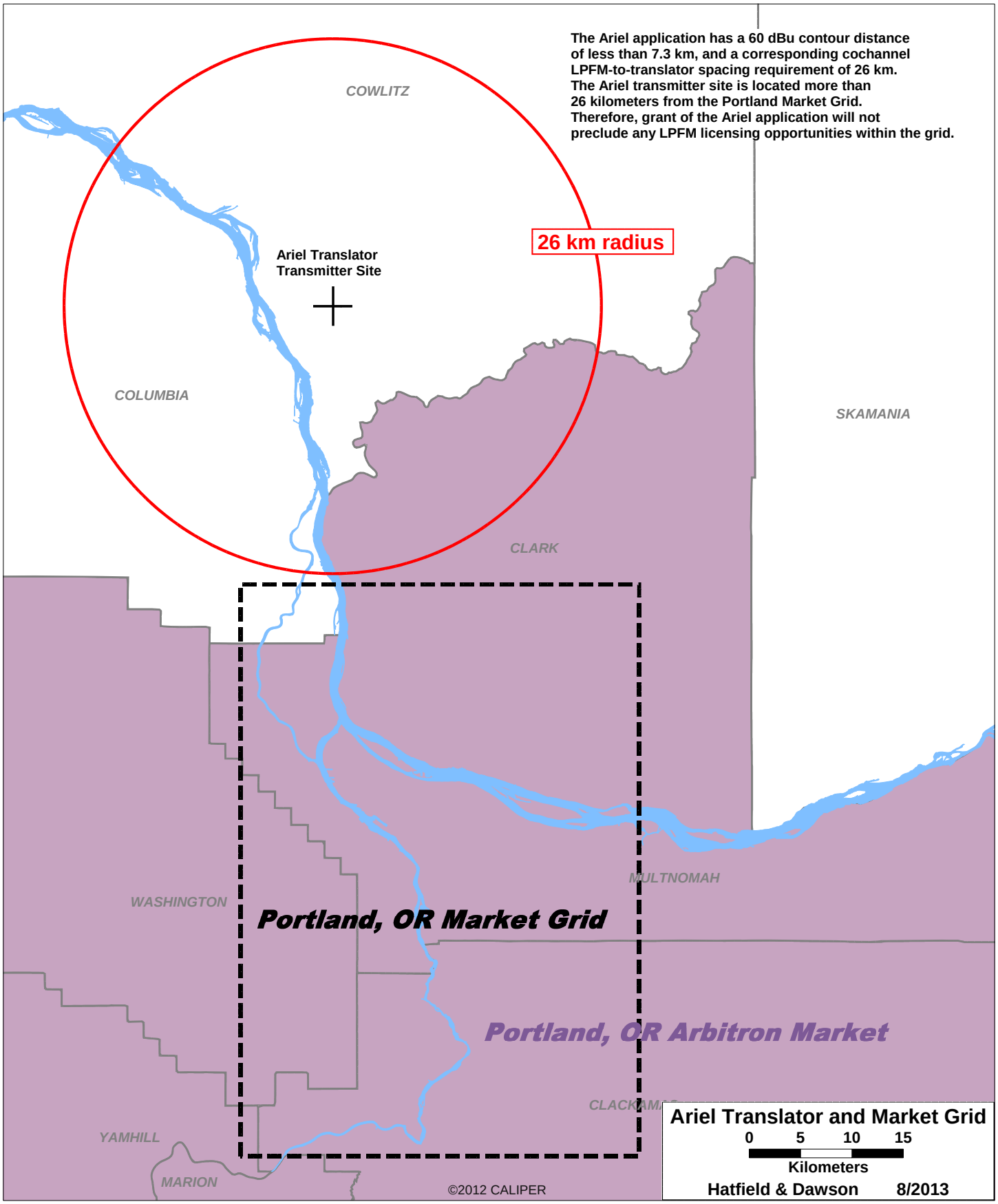
Portland, OR (Spectrum Limited, Top 50)

Grid Study

The instant filing includes a technical amendment which increases the antenna height of the proposed Ariel facility. Nevertheless, the combination of ERP and HAAT is such that the translator 60 dBu reference contour extends only 7.155 kilometers, which is less than 7.3 kilometers and places this translator in the lowest tier of LPFM-to-translator spacing requirements. The corresponding cochannel LPFM-to-translator spacing requirement is 26 km. Since the translator transmitter site will exceed this distance from the Portland market grid (as depicted on the attached map exhibit), this application will not preclude any LPFM licensing opportunities within the market grid.

Out of Grid Transmitter Site

While Portland, OR is a Top 50 market, the proposed translator transmitter site is located outside the Arbitron market boundaries. Therefore, an out-of-grid study is not required for this application.


The Ariel application has a 60 dBu contour distance of less than 7.3 km, and a corresponding cochannel LPFM-to-translator spacing requirement of 26 km. The Ariel transmitter site is located more than 26 kilometers from the Portland Market Grid. Therefore, grant of the Ariel application will not preclude any LPFM licensing opportunities within the grid.
COWLITZ
26 km radius
Ariel Translator Transmitter Site
COLUMBIA
SKAMANIA
CLARK
MULTNOMAH
WASHINGTON
Portland, OR Market Grid
Portland, OR Arbitron Market
CLACKAMAS
YAMHILL
MARION
©2012 CALIPER
Ariel Translator and Market Grid
0 5 10 15
Kilometers
Hatfield & Dawson 8/2013