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**FM Translator K254DK  
Channel 254D at Dayton, WA  
To Rebroadcast KUJ(AM) 1420 kHz Walla Walla, WA  
September 2018**

**Allocation Study**

The instant application proposes modification of the original construction permit for FM translator K254DK, including a change of transmitter site. The contour map includes a demonstration that the proposed 60 dBu contour overlaps the authorized 60 dBu contour, ensuring that this application qualifies as a minor change.

The attached spacing study shows the spacing between the proposed translator site and the location of cochannel and adjacent channel stations and proposals. This study was made with the Commission's Class A spacing requirements, and individual situations were examined to determine the lack of prohibited contour overlap per the requirements of §74.1204 of the Rules. The attached allocation study maps demonstrate compliance with the Commission's Rules for protection of FM broadcast stations and FM translators as outlined in §74.1204.

The attached spacing study demonstrates compliance with §73.207 of the Commission's Rules regarding spacing restrictions to stations which are 53 or 54 channels removed from the proposed operation.

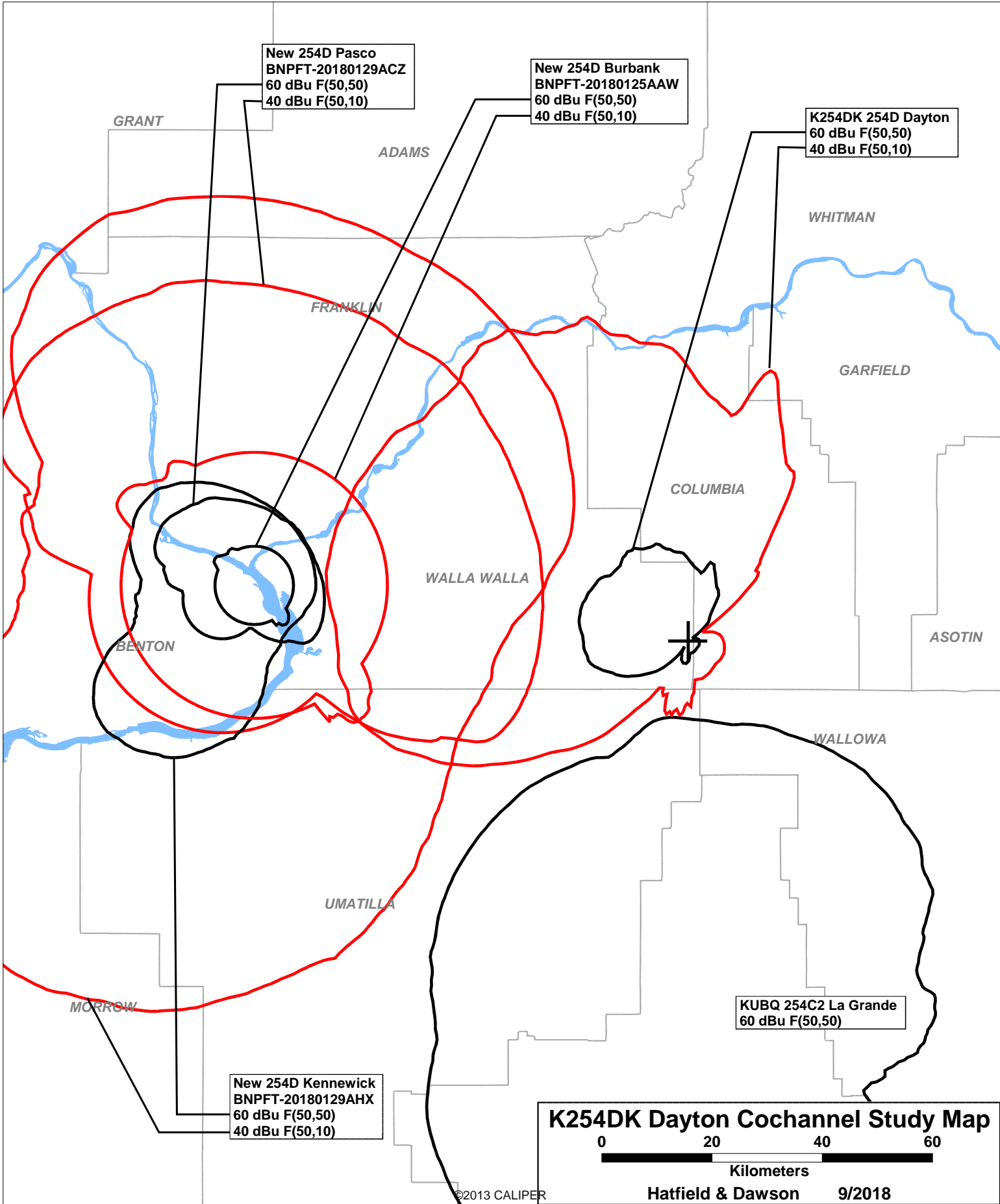
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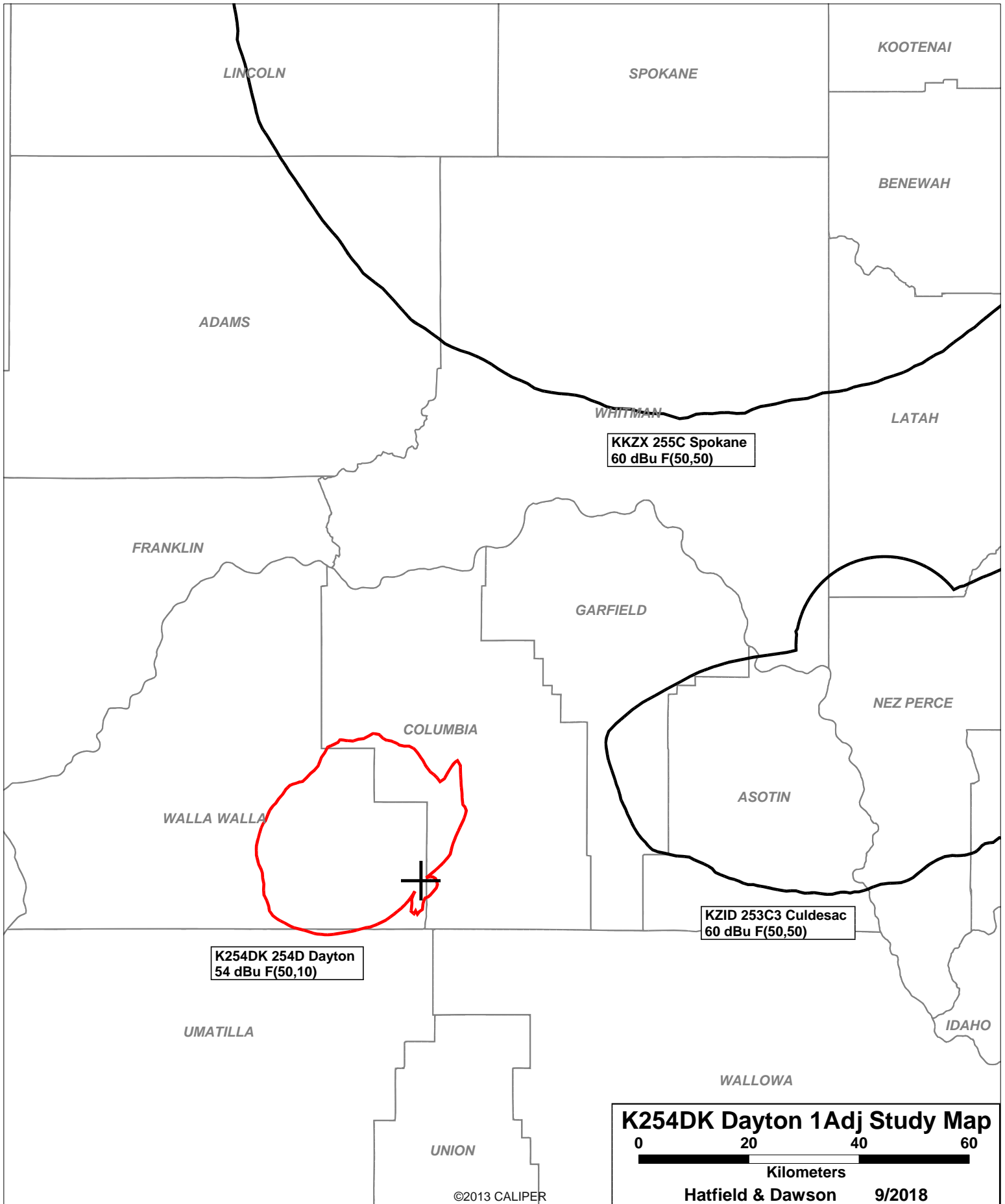
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SEARCH PARAMETERS                               FM Database Date: 180917
Channel: 254A      98.7 MHz                      Page 1
Latitude: 46  4 45
Longitude: 118  0 20
Safety Zone: 50 km
Job Title: LEWIS PEAK 254

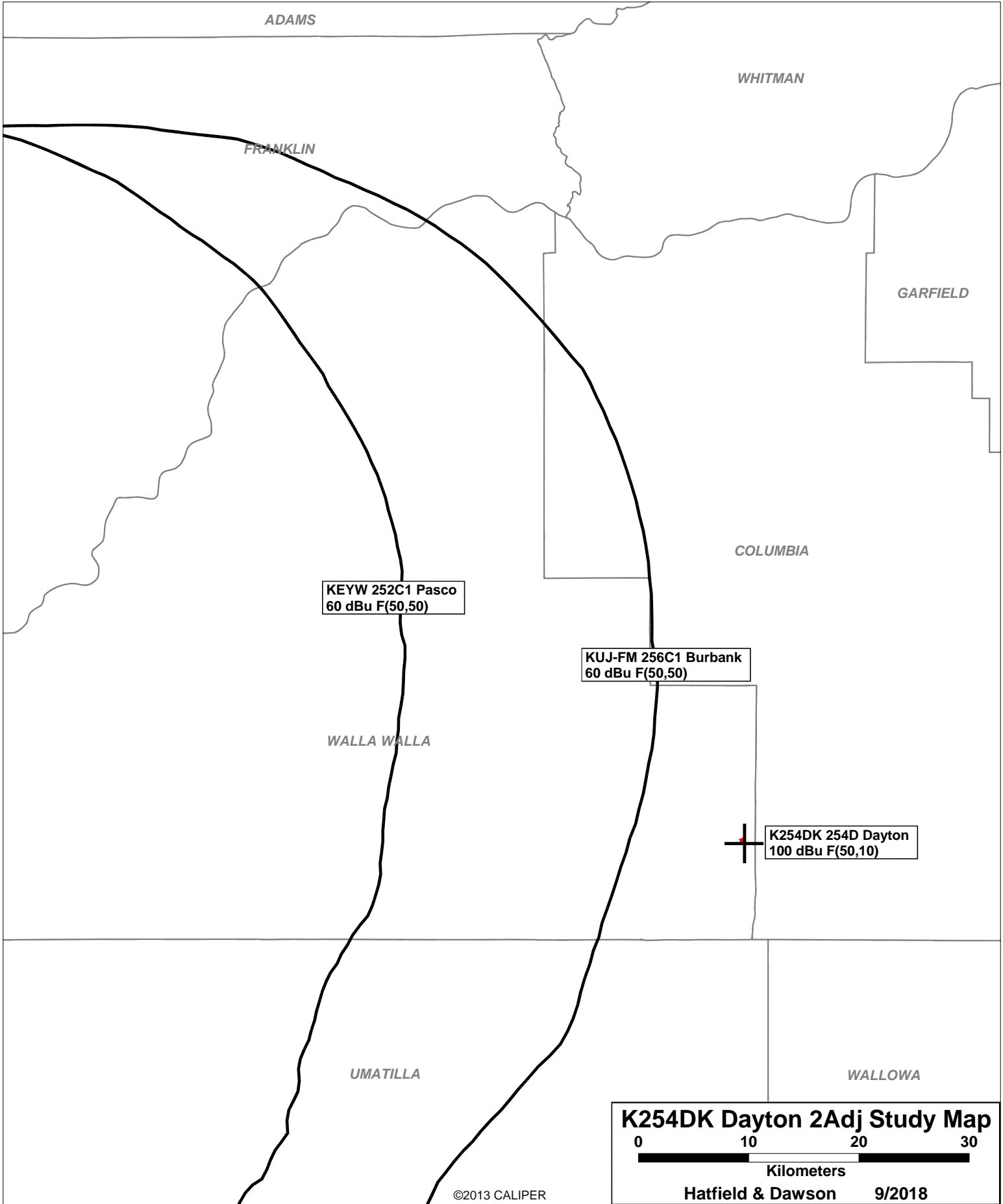
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| Call<br>Status | City<br>St        | FCC File No.   | Channel<br>Freq. | ERP(kW)<br>HAAT(m) | Latitude<br>Longitude | Bearing<br>deg-True | Dist<br>(km)    | Req<br>(km)  |
|----------------|-------------------|----------------|------------------|--------------------|-----------------------|---------------------|-----------------|--------------|
| K201DX<br>LIC  | WALLA WALLA<br>WA | BLFT-00215ABS  | 201D<br>88.1     | 0.010<br>743.0     | 45-59-38<br>118-10-47 | 234.9               | 16.48<br>0.00   | 0<br>TRANS   |
| KEYW<br>LIC    | PASCO<br>WA       | BLH-30311ABH   | 252C1<br>98.3    | 25.000<br>304.0    | 46-04-58<br>119-09-39 | 270.7<br>SS         | 89.36<br>14.36  | 75<br>CLEAR  |
| KZID<br>LIC    | CULDESAC<br>ID    | BLH-01110ADT   | 253C3<br>98.5    | 6.300<br>128.0     | 46-27-47<br>116-54-25 | 62.8<br>SS          | 94.83<br>5.83   | 89<br>CLOSE  |
| KUBQ<br>LIC    | LA GRANDE<br>OR   | BLH-930909KB   | 254C2<br>98.7    | 2.250<br>592.0     | 45-26-26<br>117-53-31 | 172.9               | 71.53<br>-94.47 | 166<br>SHORT |
| NEW-T<br>APP   | BURBANK<br>WA     | BNPFT-80125AAW | 254D<br>98.7     | 0.250<br>0.0       | 46-10-11<br>119-01-32 | 277.7               | 79.48<br>0.00   | 0<br>TRANS   |
| K254DK<br>CP   | DAYTON<br>WA      | BNPFT-80503AAY | 254D<br>98.7     | 0.250<br>170.0     | 46-19-54<br>117-59-25 | 2.4                 | 28.09<br>0.00   | 0<br>TRANS   |
| NEW-T<br>APP   | KENNEWICK<br>WA   | BNPFT-80129AHX | 254D<br>98.7     | 0.250<br>434.0     | 46-05-51<br>119-11-30 | 271.7               | 91.76<br>0.00   | 0<br>TRANS   |
| KMNA<br>LIC    | MABTON<br>WA      | BLH-30325ADO   | 254C2<br>98.7    | 11.500<br>266.4    | 46-28-33<br>120-08-37 | 285.8<br>SS         | 170.59<br>4.59  | 166<br>CLOSE |
| NEW-T<br>APP   | PASCO<br>WA       | BNPFT-80129ACZ | 254D<br>98.7     | 0.250<br>203.0     | 46-08-47<br>119-06-03 | 275.5               | 85.00<br>0.00   | 0<br>TRANS   |
| KKZX<br>LIC    | SPOKANE<br>WA     | BMLH-990302KA  | 255C<br>98.9     | 100.000<br>490.0   | 47-35-35<br>117-17-46 | 17.5                | 176.78<br>11.78 | 165<br>CLEAR |
| KUJ-FM<br>LIC  | BURBANK<br>WA     | BLH-60905AAY   | 256C1<br>99.1    | 52.000<br>385.0    | 46-05-58<br>119-07-40 | 271.9<br>SS         | 86.82<br>11.82  | 75<br>CLEAR  |

===== END OF FM SPACING STUDY FOR CHANNEL 254 =====







**Facilities Proposed**

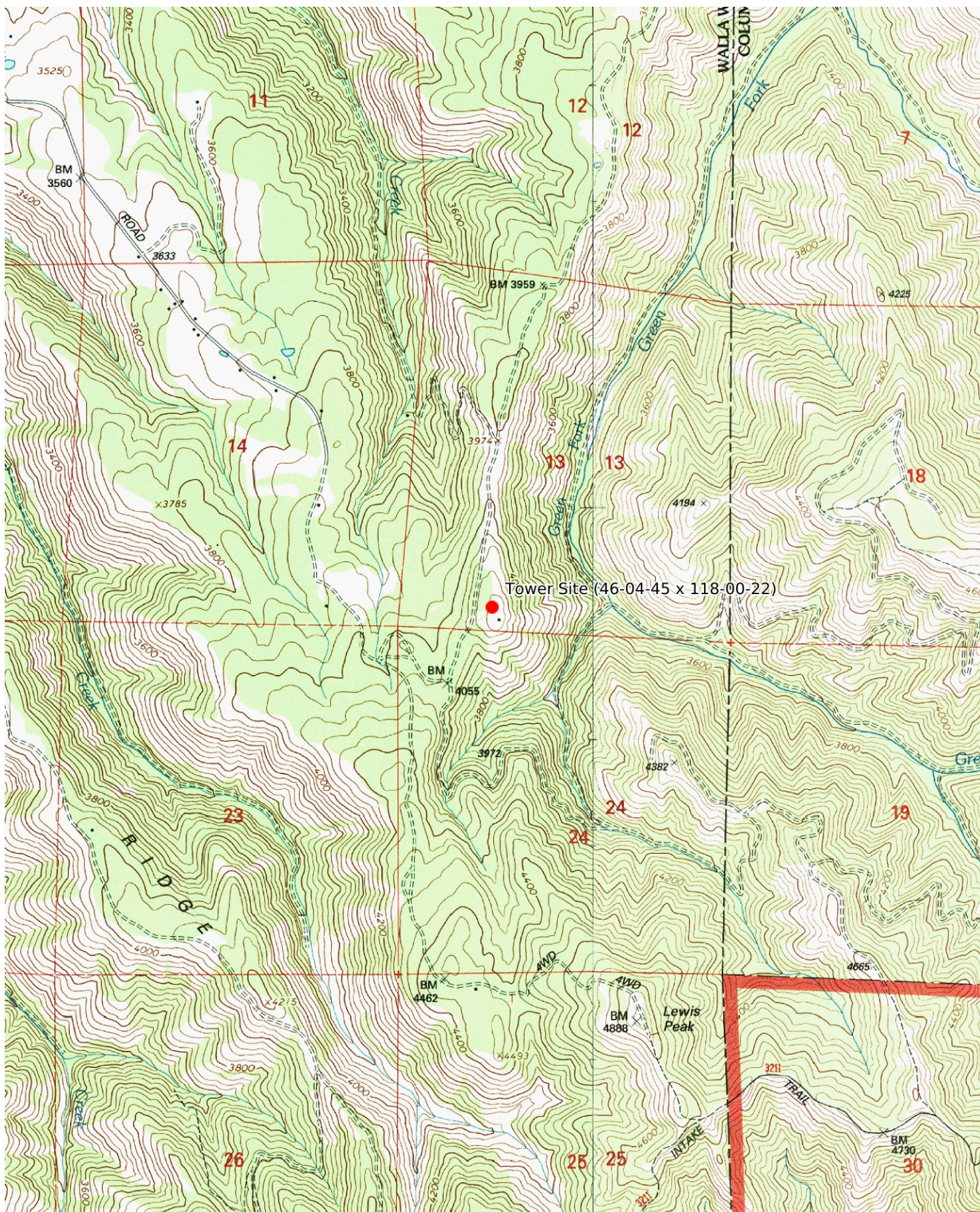
The proposed operation will be on Channel 254D (98.7 MHz) with a maximum lobe effective radiated power of 0.040 kilowatts. Operation is proposed with a directional antenna which will be side-mounted on an existing tower on Lewis Peak.

The proposed antenna support structure does not exceed 60.96 meters (200 feet) above ground and does not require notification to the Federal Aviation Administration. Therefore, this structure does not require an Antenna Structure Registration Number.

**RF Exposure Calculations**

Section 1.1307(b)(1) of the Commission's Rules exempts FM translators and boosters operating with an effective radiated power of 100 watts or less from the requirement to submit an Environmental Assessment to determine compliance with FCC specified guidelines for human exposure to radiofrequency electromagnetic fields. The applicant proposes operation with a maximum lobe effective radiated power of 40 watts and therefore no calculations have been submitted. Nonetheless, public access to the site is restricted and all station personnel and contractors are required to follow appropriate safety procedures, including turning off the transmitter if necessary, prior to commencing work on the antenna tower.





Mercator Projection  
NAD27 Conus  
USNG Zone 11TMM  
CalTopo

