

To: Andrew Farnsworth
E-Mail: af27@cornell.edu
From: Behnam Ghaffari
Date: March 13, 2018

Subject: 0428-EX-ST-2018

Message:

To calculate ERP, the transmit power would have to be converted to db first. Here is the correct calculation:

Transmit Power + Antenna Gain = ERP
25 KW + 20 db = ERP
 $25 \text{ KW} = 10 \cdot \log(25 \text{ KW} \cdot 1000) = 74 \text{ db}$
74 db + 20 db = ERP
94 db = ERP
 $10^{(94/10)} = 10^{9.4} = 2511886431.510 \text{ watts} = \text{ERP}$
ERP = 2.51 GW (GigaWatts)

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of March 13, 2018 may result in application dismissal pursuant to Section 5.67 and forfeiture of the filing fee pursuant to Section 1.1108.

DO NOT Reply to this email by using the 'Reply' button. In order for your response to be processed expeditiously, you must upload your response via the Internet at <https://apps.fcc.gov/oetcf/els/index.cfm> by clicking on the "Reply to Correspondence" hyperlink.

Responses to this correspondence must contain the Reference number : 41165