



October 30, 2018

To whom it may concern,

I, Charles Ferriera, authorize the following ABB, Inc. employees to sign FCC submission documents:

- Kady Ward
- Tore Gillbrand
- Paul Gordon

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Charles Ferriera'. The signature is fluid and cursive, with the first name 'Charles' being more prominent.

Charles Ferriera
Product Manager
Wireless Communications
ABB