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RDR255 PRE-APPROVAL GUIDANCE CHECKLIST

Date: Jan 22, 2024

To:
 Federal Communications Commission
 Authorization and Evaluation Division
 7435 Oakland Mills Road
 Columbia, MD

FCC ID: 2BD97TK2

Subjects: Part 15.255 RDR255 Pre-Approval Guidance Checklist v01

Requirements	Explanation
1. Identify the specific rule section under which certification is being sought	applying under §15.255(c)(2)(iii)(A)
2. Describe the radar modulation (e.g., pulsed, FMCW, other)	FMCW
3. State the intended use case(s), e.g., unmanned aircraft, indoor or outdoor, vehicular in-cabin, etc.	indoor
4. If applying under §15.255(c)(2): –Describe how conducted output power is determined	By calculation, conducted Power = EIRP - Antenna Gain
5. If applying under §15.255(c)(2)(v) for operation in the 60.0-61.5 GHz ISM band –Demonstrate that the transmitter occupied bandwidth (OBW) is wholly contained within the 61.0-61.5 GHz band	N/A
6. If applying under §15.255(b)(3) for operation onboard unmanned aircraft –Show that the transmitter OBW is contained within the 60-64 GHz band segment –Describe how altitude restriction will	N/A

<p>be satisfied</p> <ul style="list-style-type: none"> –Provide time domain data that demonstrates compliance to the off-time requirement 	
<p>7. If applying under §15.255(c)(2)(i) for operation over 57.0-59.4 GHz</p> <ul style="list-style-type: none"> –Show that the transmitter OBW is contained within the 57.0-59.4 GHz band segment –State whether usage will be limited to outdoor or indoor only, and if so, describe how will such limitations be ensured 	N/A
<p>8. If applying under §15.255(c)(2)(ii) for operation over 57.0-61.56 GHz</p> <ul style="list-style-type: none"> –Show that the transmitter OBW is contained within the 57.0-61.56 GHz band segment 	N/A
<p>9. If applying under §15.255(c)(2)(iii)(A) for operation over 57.0-64.0 GHz</p> <ul style="list-style-type: none"> –Show that transmitter OBW is contained within 57-64 GHz band segment –Demonstrate with time domain data plots that the off-time requirement is satisfied 	<p>applying under §15.255(c)(2)(iii)(A)</p> <ul style="list-style-type: none"> -Operating at 60.4923-62.5242GHz within 57-64 GHz band -Within 33ms, the off-time is 28.88ms, greater than 25.5ms
<p>10. If applying under §15.255(c)(2)(iii)(B) for operation over 57.0-64.0 GHz</p> <ul style="list-style-type: none"> –Show that transmitter OBW is contained within 57-64 GHz band segment –Explain how ‘fixed’ requirement is satisfied and maintained (if applicable) –Explain the intended vehicle application and how the device will be limited to vehicular use (if applicable) –Demonstrate with time domain data plots that the specified off-time requirement has been satisfied 	N/A
<p>11. If applying under §15.255(c)(3) for pulsed radar operation over 57-64 GHz</p>	N/A

- Show that transmitter OBW is contained within 57-64 GHz
- Specify the maximum pulse duration and provide supporting time domain data
- Provide time domain data plot that demonstrates the maximum duty cycle in any 3 μ s time window

If you have any questions, please feel free to contact us at the address shown below

Sincerely

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