



Date: 16 September 2005
To: John Kennedy
From: Ed Mitchell
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Reference: Correspondence Reference: 3891
STA File Number 0556-EX-ST-2005
Confirmation Number: EL693672

1. Please verify that the transmissions that will be made require mobile as well as fixed/base operations.

RESPONSE: **The operations will be mobile/fixed operations.** We did notice as we progressed through the online application process, that this field/button seems to default back to fixed/base everytime we reviewed the application. We must have missed this during the final check.

2. Please report the PEAK effective radiated power as opposed to the mean effective radiated power.

RESPONSE: The application was incorrect. **The 20.4Kw is the PEAK ERP.**

3. Please explain why an increase in power is needed.

RESPONSE: Lockheed Martin has changed out the equipment chain to a higher power configuration to test additional data rates as well as be assured of a reliable communications link during the planned testing. The original equipment is be off loaded to another equipment configuration for other testing. The new equipment chain includes the following (expands the data provided to the FCC in the original application)

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|---|--|
| - Titan Antenna | model number: DATD FSS-4180 (18 inch aperture) |
| - AN/USC-66-V2 modem (no change) | |
| - Aethercom block upconverter and Power Amp | model number: SSPA137-145-30 |
| - NewTec L band converter | model number: NTC-2142 |
| - AnaCom secondary block up converter | model number: Elsat |

This revised equipment configuration will now be used for the requested test period in addition to the original STA approved under file number STA 0473 -EX-ST-2005.

4. Please indicate any other changes besides the power that were made to this callsign, WC9XFU, of which we should be aware. If none, state "None".

RESPONSE: The primary change is the equipment chain listed above that now has the higher peak transmission power. Lockheed Martin is using this equipment for testing as defined in the application. The equipment configuration listed above is similar to the Experimental License approved by the FCC for The Titan Corporation, Call Sign: WD2XSJ File Numbers: 0104-EX-ML-2005 and 0081-EX-ML-2005.