

## Huhn Michael

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**From:** Gregoire, Joan [REDACTED]  
**Sent:** Thursday, June 12, 2014 4:07 PM  
**To:** Huhn Michael  
**Cc:** Randall, William; Gregoire, Joan  
**Subject:** RE: NTSB Questions re N407HL/WPR12GA106  
**Attachments:** 407-MM-CH62\_P0007.png

Hi Michael,

I have sent you a current copy of our Flight Safety Contact list in a separate email.

Regarding your questions...

- a) I do not have a copy of the DCA exam/test report you refer to below; however, if it is a Bell-produced report, you may use excerpts from the report with prior permission or you may paraphrase sections. Just send me those sections you would like to use, and I will review them and provide permission as appropriate. The report can be placed in the docket but not the public side of the docket.
- b) I have reviewed the information we have here regarding this accident, and I do not see a list of parts/components that were unable to be located. I will continue to look through emails to see if I can find such a list.

In the mean time...and based solely on how you have it written...

"bumper.damper" should be damper. (See attached, item 8)  
"TR flapper stop" should be flapping stop.

- c) Still researching tail rotor pitch angles.

With the implementation of ASB 407-99-33, Vne Restoration to 140 KIAS, left pedal travel is reduced by about 25% above 55 +/- 5 KIAS.

- d) Main rotor limits  
Power off – Max 442 rpm, Min 351 rpm  
Power on – Max 413 rpm, Min 409 rpm

The tail rotor gearbox output shaft spins at about 2500 rpm.

I hope I have addressed all of your questions. If not, please don't hesitate to contact me.

Best regards,  
Joan

Joan Gregoire | Air Safety Investigator | Office: [REDACTED]



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**From:** Huhn Michael [mailto: [REDACTED]]  
**Sent:** Friday, June 06, 2014 11:27 AM  
**To:** Randall, William; Gregoire, Joan  
**Subject:** RE: NTSB Questions re N407HL/WPR12GA106

Thanks Tony  
BTW, can someone please provide me/us with a current BH contact list for NTSB use?  
Thanks!

Michael Huhn  
Air Safety Investigator  
NTSB Western Pacific Region  
M: [REDACTED]  
[REDACTED]

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**From:** Randall, William [mailto: [REDACTED]]  
**Sent:** Friday, June 06, 2014 9:22 AM  
**To:** Huhn Michael; Gregoire, Joan  
**Subject:** RE: NTSB Questions re N407HL/WPR12GA106

Michael,

I'm going to assign the remainder of this investigation to Joan Gregoire. She will be back in the office on Monday and should be able to get you some answers pretty quickly.

Tony

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**From:** Huhn Michael [mailto: [REDACTED]]  
**Sent:** Friday, June 06, 2014 10:35 AM  
**To:** Randall, William  
**Subject:** NTSB Questions re N407HL/WPR12GA106

Hi Tony

The aircraft was N407HL Model 407 (NOT 206 as I misstated in other email) sn 53869

In no particular order, here are the Q's I sent to Bill

- a) I need to know whether I can put the attached DCA exam/test report (or excerpts of it) in our docket-  
The Q is based on our and US rules re ITAR/Export stuff, which I am very un-educated on
- b) During our exam at Beegles we couldn't find some parts and I want to make sure my list is right  
Can you please verify this against your list (if you have one) and ALSO please provide the correct part names for the green highlighted items

### **Components Not Located**

The following components or component elements could not be located by investigators during/for this examination:

Most afterbody portions of 4 MRBs

Approximate 13 inch tip section of the red/triangle MRB

1 bumper damper from MRB

Approximate 30 inch segment of tail boom (just forward of tail rotor assembly)

Approximate 30 inch segment of tail rotor directional control rod (just forward of tail rotor assembly)

One TR flapper stop

Approximate 34 inch span of left horizontal stabilizer

Plastic cover for the left-seat collective control stub  
Forward toe/stub segment of left undercarriage skid

- c) The TR blade travel (pitch) range isn't in the TCDS; according to the TCDS its in the service/maintenance manual. Can you please provide the TR blade travel range?
- d) What are the normal MR and TR rotational speeds?

Michael Huhn  
Air Safety Investigator  
NTSB Western Pacific Region  
M: [REDACTED]

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