

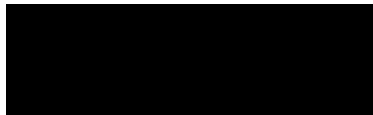
From: [Shambora, Eric - FS](#)
To: [Stein Stephen](#)
Subject: RE: Helicopter Practical Test Standards
Date: Wednesday, June 1, 2022 1:41:17 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[N623PB_manifests_07072020.pdf](#)
[WPR20LA211 Prelim V 03 \(reid comments\).docx](#)
[WPR20LA211 Prelim V 04.docx](#)

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Distance H2 to H5 = 4116.52ft or .779 miles



Eric Shambora
Aviation Safety Officer
Forest Service
Washington Office (Detached)



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Caring for the land and serving people

From: Stein Stephen <[REDACTED]>
Sent: Wednesday, June 1, 2022 10:23 AM
To: Shambora, Eric - FS <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

It may make more sense to chat about this. Do you have some time today?

From: Shambora, Eric - FS <[REDACTED]>
Sent: Wednesday, June 1, 2022 9:01 AM
To: Stein Stephen <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

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I understand it to be 25 total minutes flight time prior to the accident on that fuel cycle. On that one flight (from 1148 until the accident at 1213) he had already completed three picks and drops and was on the 4th when the accident occurred.



Eric Shambora
Aviation Safety Officer
Forest Service
Washington Office (Detached)



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From: Stein Stephen <[REDACTED]>
Sent: Wednesday, June 1, 2022 9:37 AM
To: Shambora, Eric - FS <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

So did he complete 3 full loads (I guess roundtrip) prior to the accident? And if so is that 25 minutes each leg or roundtrip?

From: Shambora, Eric - FS <[REDACTED]>
Sent: Tuesday, May 31, 2022 3:41 PM
To: Stein Stephen <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

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Okay, with some additional clarification:

Initial LC for the day done prior to first flight *and then* if conditions change by 5°C or 1000' PA.

Caveat: the LC instructions also say - or when the Helicopter Operating Weight changes (such as changes to the Equipped Weight, changes in flight crew weight or a change in fuel load). See below from LC worksheet (blank attached):

INSTRUCTIONS

A load calculation must be completed for all flights. A new calculation is required when operating conditions change ($\pm 1000'$ in elevation or $\pm 5^\circ\text{C}$ in temperature) or when the Helicopter Operating Weight changes (such as changes to the Equipped Weight, changes in flight crew weight or a change in fuel load).

All blocks must be completed. Pilot must complete all header information and Items 1-13. Helicopter Manager completes Items 14 & 15.

From the log (also attached), it says at 1148, "3PB up for slingloads H2 to H5 + backhaul" and then "Emergency" at 1216. He had completed 3 external loads from H2 to H5 and was flying the 4th load when the accident occurred. We had previously estimated the time of the accident at 1213 which

would give him *a total flight time on the accident fuel cycle* of 25 minutes.

From my notes, we previously had one of our Inspector Pilots review the load calc and he stated based on the numbers provided, everything looked okay. Again, based on numbers provided... Standing by for anything else that might help,
Eric



Eric Shambora
Aviation Safety Officer
Forest Service
Washington Office (Detached)



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From: Stein Stephen <[REDACTED]>
Sent: Tuesday, May 31, 2022 3:30 PM
To: Shambora, Eric - FS <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

Thanks, man!

From: Shambora, Eric - FS <[REDACTED]>
Sent: Tuesday, May 31, 2022 2:27 PM
To: Stein Stephen <[REDACTED]>
Subject: Re: Helicopter Practical Test Standards

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Hi Stephen! Yes, he would have completed that calculation once, usually in the morning, before he departed. Let me see if I have the helicopter mangers logbook or any other documentation to get you something more exact on flight times. I'll start checking now and get back to you asap!
Eric

From: Stein Stephen <[REDACTED]>
Sent: Tuesday, May 31, 2022 3:09:41 PM
To: Shambora, Eric - FS <[REDACTED]>
Subject: RE: Helicopter Practical Test Standards

Hi Eric,

I hope this email finds you well.

I'm trying to put together the fuel discussion in my report on the Payson, Arizona accident and was trying to determine what I should use.

Would the attached interagency calculation have been performed the morning of prior to him departing on his first flight or was there one for each lift?

If it was done before the first flight can we estimate how much flight time would have elapsed during the prior three hops he did? I can't imagine it would be more than .5 – 1.0

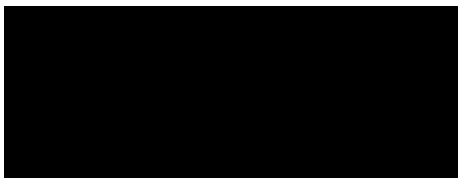
Stephen

From: Shambora, Eric - FS [REDACTED]
Sent: Monday, July 19, 2021 7:58 AM
To: Stein Stephen [REDACTED]
Subject: FW: Helicopter Practical Test Standards

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Hi Stephen,
For your reference and records, Inter-Agency Helicopter Pilot Practical Test Standards attached.
Please let me know if there is anything else I can do to assist,
Eric

Eric Shambora
Aviation Safety Officer
Forest Service
Washington Office, Fire and Aviation Management



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