

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Fuel flow rates for 206L1 (C30P)
Date: Thursday, February 25, 2021 12:04:51 PM
Attachments: [REDACTED]

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Brian,

Note chart below with Fuel Flow in gal/hour.

Gross Weight (lbs)	HOGE Power (ESHP)	Fuel Flow (lbs/hour)	Fuel Flow (gal/hour)
3000	285	234	34.9
3500	342	255	38.1
4000	404	280	41.9

6.7 lbs/gal was used for the above fuel flow calculation. Note that MCP (Max Continuous Power) is 370 shp which would have a fuel burn rate of 39.7 gal/hour. This could be considered the max fuel flow for this effort by staying in the Green range.

Mark

From: Stuntzner, Mark
Sent: Wednesday, February 24, 2021 5:34 PM
To: Brian Rayner [REDACTED]
Cc: Tsai, Helen [REDACTED] Nick Shepler
- Rolls Royce [REDACTED] >
Subject: Fuel flow rates for 206L1 (C30P)

Hello Brian,

Regarding the Coconut Creek, FL 206L1 accident (C30P engine, S/N 45254 & Reg. N5013G) that occurred on 6/25/2020, Bell engineering has calculated the following fuel flow rates for HOGE (Hover Out of Ground Effect) flight at various gross weights for 206L1 with 250-C30P engine installed. The numbers could vary depending on each aircraft and engine and whether the helicopter flight regime is completely HOGE flight or a mixture of Cruise and HIGE flight..

Gross Weight (lbs)	HOGE Power (ESHP)	Fuel Flow (lbs/hour)
3000	285	234

3500	342	255
4000	404	280

Let me know if you have any more questions or need clarification.

Best Regards,

MARK C STUNTZNER

Air Safety Investigator | Bell Flight Safety

Office:

Mobile:

24 Hour Accident Line:

Email:

Group Email:

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