

# **ATTACHMENT 2**

## **HELICOPTER SPECIALIST FACTUAL REPORT**

**NTSB No. WPR19FA109**

**Accident helicopter weight and balance  
(2 Pages)**

206B, N61PH WEIGHT & BALANCE - TEST PLAN No. 206B-MR-FTP-301

Flight Strain Survey - Aft C.G.

| CONFIGURATION                                    | LONGITUDINAL  |              |        | LATERAL    |            |
|--------------------------------------------------|---------------|--------------|--------|------------|------------|
|                                                  | WEIGHT        | ARM          | MOMENT | ARM        | MOMENT     |
| <b>Aircraft as Weighed - Including:</b>          | 2009.0        | 115.4        | 231838 | 0.1        | 187        |
| Data Acquisition System and Instrumentation      |               |              |        |            |            |
| Pilot                                            | 175.0         | 65.0         | 11375  | 14.0       | 2450       |
| Flight Test Engineer                             | 185.0         | 65.0         | 12025  | -11.0      | -2035      |
| Tracking Equipment or Laptop Computer            | 10.0          | 65.0         | 650    | -11.0      | -110       |
| Ballast (baggage compartment)                    | 100.0         | 161.0        | 16100  | 0.0        | 0          |
| Ballast (behind Instrumentation box)             | 225.0         | 114.5        | 25763  | 0.0        | 0          |
| Ballast (inside Instrumentation box)             | 0.0           | 106.9        | 0      | 0.0        | 0          |
| Ballast (beside Instrumentation box)             | 0.0           | 106.8        | 0      | 0.0        | 0          |
| Ballast (on pallet forward)                      | 0.0           | 82.0         | 0      | 0.0        | 0          |
| Ballast (on floor forward)                       | 0.0           | 77.2         | 0      | 0.0        | 0          |
| Takeoff Fuel (91.0 gal.)                         | 591.5         | 118.0        | 69797  | 0.0        | 0          |
| <b>Take Off Weight &amp; Center of Gravity</b>   | <b>3295.5</b> | <b>111.5</b> | 367548 | <b>0.1</b> | <b>492</b> |
| 47 mins of testing (71.8 gal. @ 25 gal./hr.)     |               |              |        |            |            |
| Test Bingo Fuel (71.8 gal.)                      | 466.9         | 117.1        | 54665  | 0.0        | 0          |
| Landing Fuel (60 gal.)                           | 390.0         | 115.3        | 44967  | 0.0        | 0          |
| <b>Test Bingo Weight &amp; Center of Gravity</b> | <b>3170.9</b> | <b>111.1</b> | 352415 | <b>0.2</b> | <b>492</b> |
| <b>Landing Weight &amp; Center of Gravity</b>    | <b>3094.0</b> | <b>110.8</b> | 342718 | <b>0.2</b> | <b>492</b> |

