

## Regulations Requesting Waiver or Authorization Attachment

NASA DFRC 2007 Fire Mission  
UAS COA Application Attachment

NASA Dryden Flight Research Center (DFRC) has procured from General Atomics – Aeronautical Systems Incorporated, an MQ-9 Reaper aircraft and a Ground Control Station (GCS). DFRC has assigned the number “NASA 870” to the aircraft and renamed it “Ikhana” (pronounced ee-kah-nah , a Native American word from the Choctaw Nation meaning intelligent, conscious, or aware).

This application is requesting waiver or authorization with respect to the following Part 91 sections (marked with an “X”):

Part		Remarks/Comments
91.107 Safety Belts, etc	No	
91.111 Ops near other Aircraft	No	
91.113 Right of Way, except water ops	No	
91.115 Right of Way, Water ops	No	
91.117 Aircraft Speed	No	
91.119 Minimum Safe Alt, General	No	
91.121 Altimeter Settings	No	
91.123 Compliance with ATC clearance and instructions	?	Our current understanding of FAA HQ UAS office policy: Any significant deviation in flight path is required to be negotiated with an FAA HQ UAS office representative. (It is unclear how this may conflict with ATC instructions).
91.125 ATC Light Signals	No	
91.126 Operating in/vicinity of Class G airspace	No	
91.127 Operating in/vicinity of Class E airspace	No	
91.129 Operations in Class D airspace	No	
91.130 Operations in Class C airspace	No	
91.131 Operations in Class B airspace	No	
91.133 Restricted and prohibited areas	No	Aircraft will take-off, climb, descend, and land in the R-2508 SUA.
91.135 Operations in Class A airspace	No	
91.137 TFR’s in the vicinity of disaster/hazard areas	No	
91.141 Flight restrictions in the proximity of the Presidential and other parties	No	

91.143	Flight limitation in the proximity of space flight operations	No	
91.153	VFR flight plan, info required	No	
91.155	Basic VFR weather minimums	No	
91.157	Special VFR weather minimums	No	
91.159	VFR cruising altitude or flight level	No	
91.169	IFR flight plan, info required	No	
91.173	ATC clearance and flight plan required	No	
91.175	Takeoff and landing under IFR	No	
91.177	Minimum altitude for IFR operations	No	
91.179	IFR cruising altitude or flight level	No	
91.181	Course to be flown	No	
91.185	IFR ops: Two-way radio communications failure	Yes	Reference attachment: NASA 2007 Fire Mission - Communication and Lost Communication Description Attachment
91.187	Operation under IFR in controlled airspace: Malfunction reports	No	
91.209	Aircraft lights	No	
91.303	Aerobatic flight	No	
91.305	Flight test areas	No	
91.311	Towing: Other than under 91.309	No	
91.313(e)	Restricted category civil aircraft: Operating limitations	No	Text is: "Except when operating in accordance with the terms and conditions of a certificate of waiver or special operating limitations issued by the Administrator, no person may operate a restricted category civil aircraft within the United States – (1) Over a densely populated area; (2) In a congested airway; or (3) Near a busy airport where passenger transport operations are conducted.
91.515	Flight altitude rules	No	
91.705	Operations within airspace designated as Minimum Navigation Performance Specification Airspace	No	
91.707	Flights between Mexico or Canada and the United States	No	
91.713	Operation of civil aircraft of Cuban registry	No	