

Purpose of this spectrum use request to the FCC is to obtain long-term (four year) permission to use General Atomics' internally developed Lynx synthetic aperture radar on company-owned unmanned aerial systems (UAS) in support of company-funded and other non-government efforts in the national airspace of

- Southern California, where General Atomics owns two private airports (Gray Butte, CA, and el Mirage CA) from which it regularly operates its company-owned UAS and associated payloads (emitters- in this case, its Lynx SAR). General Atomics also operates its UAS from airport facilities at nearby Laguna Army Airfield in Yuma, AZ
- In the vicinity of Grand Forks, ND, where General Atomics operates its UAS and associated payloads regularly from Grand Forks Air Force base

General Atomics is a partner in ongoing studies in conjunction with transnational corporations and federal government entities, particularly NASA and the FAA, to further the integration of unmanned aerial systems in the national airspace. As such, General Atomics will require access to the above described locations, the specifics of which are listed within this application, for the following objectives:

- Development of experimental, UAS-mounted emitters
- To continue progress in integrating UAS into the national airspace for the benefit of both commercial and civil entities alike, thereby benefiting the general public at large
- Obtaining an FAA-granted aircraft type certification for one or more General Atomics' UAS models

General Atomics is the first company to undertake an effort which encompasses these objectives on such a large scale, and is confident such experimentation has yet to be investigated to this scope by any person or entity within the United States. The integration of General Atomics' UAS-mounted synthetic aperture radar will continue to contribute and expand the utility of unmanned systems to our myriad of civil and commercial partners with vested interest in critical infrastructure and points of interest across both southern California as well as North Dakota.