



RADIO FREQUENCY EMISSIONS

What does Lockheed Martin do in Moorestown, NJ?

Lockheed Martin's Moorestown facilities employ thousands of people and is an international leader in combat system design, phased array radar systems and systems integration for military and civil requirements.



The radar systems operated at our Moorestown site use radio frequency (RF) energy to search for and track airborne objects of interest such as aircraft. This radio frequency energy is the same type that is generated by everyday devices such as microwave ovens, two way radios, Wi-Fi, mobile phones, and radio and television broadcast stations. Such emissions are one form of non-ionizing radio frequency energy.



What is Non-Ionizing Radio Frequency Energy?

Non-ionizing radio frequency energy is present practically everywhere. Many households, businesses, and commercial and military equipment generate non-ionizing radio frequency energy.

This type of energy dissipates rapidly with distance from its source. This energy, if sufficiently intense, can generate heat within an absorbing object. In order to feel or measure these effects, a very high level of this type of energy must be present. An example is the concentrated energy level within a microwave oven used for cooking.

Are Radio Frequencies Regulated?

There are federal guidelines that specify safe levels of exposure for humans to non-ionizing radio frequency energy, which are far below the levels at which any tissue heating can occur.

The Occupational Safety and Health Administration (OSHA) and Federal Communications Commission (FCC) have regulations, and the American National Standards Institute (ANSI) and Institute of Electrical and Electronics Engineers (IEEE) have guidelines, for keeping emissions of RF energy within safe levels.

Lockheed Martin is subject to the regulations and to scrutiny by federal and state regulators. Lockheed Martin has taken a conservative approach by exceeding regulatory requirements to ensure that emissions are kept well below the allowable standards.

How is Lockheed Martin Regulated?

Lockheed Martin-operated sites are governed by regulatory agencies, such as OSHA and FCC, as well as by corporate and U.S. Navy safety processes, procedures and devices.

The Moorestown facilities have current licenses to emit radio frequency energy associated with their respective radar systems. Our Moorestown site operates safely within federal regulatory limits set for both occupational exposure and public exposure to radio frequency energy. In addition to the government regulations, our Moorestown site has detailed internal policies and procedures and are governed by an RF safety committee, which ensures safe operation.

As an example, during an approximate six month period in 2001, an in-depth, detailed and comprehensive overview of the RF control measures employed by Lockheed Martin was provided to representatives of the FCC, State of New Jersey Department of Environmental Protection and municipality of Moorestown Township. The collective response of the personnel that attended this overview was that Lockheed Martin had instituted substantial RF controls and clearly demonstrated that the company was exceeding regulatory requirements.



Are Lockheed Martin's Radars Safe? ... Yes

The safety of both the surrounding community & its employees are of the greatest importance to Lockheed Martin.

Lockheed Martin's state-of-the-art safety system continuously monitors operations to provide moment-to-moment assurance of compliance with federally regulated limits.

Scientific studies conducted worldwide over many years have not found any scientific evidence demonstrating any adverse health effects associated with exposure to radio frequency energy below the federally regulated levels.

Lockheed Martin Moorestown has a proven record of commitment to excellence in the area of environment, safety and health. It is an OSHA Voluntary Protection Program (VPP) STAR site, an ISO 14001-registered facility, and a charter member of the United States Environmental Protection Agency Performance Track Program.

The Lockheed Martin Moorestown, NJ facility has received various corporate awards as well as state and local government awards for its exemplary environment, safety and health programs.

