



Enterprise Air Quality Resource Web Portal

Eglin AFB has designed and implemented the web-based *Enterprise Air Quality Resource Web Portal* (employing Oracle® as the backbone database engine, Microsoft .Net® as the user interface, and ArcGIS® Server to add a geographic information system (GIS)/spatial component to the system), in partnership with Science Applications International Corporation (SAIC), as an **integrated tool box of data management and compliance processes that ensures over 20,000 active duty, civilian, and contractor personnel at Eglin AFB can efficiently comply with the complex Federal and State air quality regulatory and reporting requirements** for the base's broad geographic distribution, large number of facilities, and array of air emission sources. Each person at Eglin AFB who works with equipment that has the potential to emit airborne pollutants is first oriented to Eglin's *Enterprise Air Quality Portal* to ensure they understand how their actions and equipment relate to air quality. The *Enterprise Air Quality Portal* provides Computer Based Training (CBT) through its Learning Information Management System (LIMS) and an array of other compliance assistance tools, which guide air quality compliance efforts for Eglin AFB's personnel.



The *Enterprise Air Quality Portal* includes interactive data entry and reporting sites for line personnel and provides enterprise information management tools for managers of stationary air emission sources, including geospatial referencing, data management, and emission factors for air emission calculations. Eglin's *Enterprise Air Quality Portal* also consolidates data entry and emissions calculations for mobile air emission sources and greenhouse gas (GHG) reporting requirements. Due in large part to the efficiencies and effectiveness realized with

this toolbox, Eglin AFB's Air Quality Program enjoyed the honor of becoming the first Department of Defense (DoD) organization to have won the U.S. Environmental Protection Agency (EPA) Clean Air Excellence Award (Regulatory and Policy Innovations Category, awarded for calendar year 2010). The award was given to recognize Eglin's reduction in pollutant emissions and successful compliance efforts associated with its *Enterprise Air Quality Portal*, which is actively used to manage over 2,000 individual emission units in 32 source categories associated with 431 individual organizational shops, including Navy, Marine, and Army tenants with 11.6 million square feet of physical plant and 3,256 facilities spread across 724 square miles of land ranges.

The *Enterprise Air Quality Portal* presents an array of automated reporting tools developed to rapidly evaluate the emissions source and hazardous materials data contained in the **Air Program Information Management System (APIMS)** and **Hazardous Material Management System (HMMS)** for each shop and verify the materials were in compliance. Material data such as National Stock Number, VOC/HAP content, vapor pressure, process use, MSDS and ODS, Extremely Hazardous Substance and OSHA carcinogen are readily available through a variety of electronic reports. The Surface Coating Management System (SCMS) and Monthly Air Monitoring Forms web-based tools available within the *Enterprise Air Quality Portal* capture required usage data used to calculate air emissions. These robust tools and processes facilitate accurate monthly calculation of air emissions and reduce the effort required to generate mandated annual emissions reports.