



Occupational and Environmental Health Exposure Data

Reference: AFI 48-145



Current as of Date: 06 Jun 2016

Date Printed: 06 Jun 2016

Workplace	Risk Categorization	Installation	Organization	# of SEGs	# of Personnel
MXS/Structural Maint (WPID: MXSM)	1 - High Risk	(ANG)	MAINTENANCE SQ FFL8Q0	1	11

NOTE: This report includes occupational health risk assessment data from the Defense Occupational & Environmental Health Readiness System for Industrial Hygiene (DOEHS-IH) database. Data is considered reviewed, approved, and current by the below certifying authority as of the above Current as of Date.

Exposure Group(s) Associated with Workplace

MXS/Structural Maint (MXSM-035A)

Administrative Controls/Training

Training - Respiratory Protection; Training - Personal Protective Equipment; Training - Lead; Training - Hearing Conservation Program; Training - Hazard Communication; Training - Chromium and Chromates; Training - Cadmium; Signs/Distance - Warning Signs; Miscellaneous - Standard Operating Procedures; Miscellaneous - Other

Workplace Description

Structural Maintenance is responsible for the inspection, removal, repair, fabrication, and installation of aerospace structures and components. Personnel repair and fabricate metal and fiberglass structures and components by cutting, forming, grinding, forging, milling, shaping, sanding, priming, and/or painting. Various adhesives, hand tools, and pneumatic tools are used for the installation of the repaired or newly fabricated structures and components. Personnel are exposed to hazardous noise from shop equipment and from working on the flight line. During flight line operations personnel have the potential to be exposed to heat and cold stress. The Structural Maintenance shop is on the base respiratory protection program and they use an air-purifying respirator with cartridges.

AFSC: 2A7X3 Shop Code: HM024

Shop Supervisor:

Duty phone:

Office Symbol: MXMFS

Building #:

Exposure Group: MXS/Structural Maint

SEG Personnel: 11

Health Hazard	Regulatory Limit	Measured Exposure	Exposure Determination
CADMIUM COMPOUNDS (Inhalation) (TLV-A2: Suspected Human Carcinogen) (Teratogen - NIOSH; NEHC)	.0016 mg/m3 (10 hr TWA)	.000849 mg/m3 (Hazard Ratio: 0.53)	Above 50% of OEL
Existing Control(s)	Ventilation - Miscellaneous Operations - Downdraft Table (Hood/Booth - Structural Fiberglass Downdraft Table); Ventilation - Miscellaneous Operations - Downdraft Table (Fiberglass/Layup Table); Ventilation - Mechanical Surface Cleaning and Finishing - Abrasive Blasting Cabinet (Hood/Booth - Plastic Blast Media Cabinet); Respirator - Respirator (Full Face 3M 7800S APR); Gloves - N-DEX (Nitrile Gloves); Eyes - Safety Glasses (Safety Glasses); Eyes - Goggles, Chemical Splash (Goggles); Body/Clothing - Coveralls, Cotton (Military Issue Cotton Coveralls)		
Process(es)	General Maintenance of Shop Equipment (Monthly 30-60 minutes); Bead Blasting Aircraft Parts (Special Occasions 1-2 hours)		
CADMIUM (Inhalation) (OSHA exp std)(TLV-A2: Suspected Human Carcinogen)	.005 mg/m3 (8 hr TWA)	.000123 mg/m3 (Hazard Ratio: 0.02)	Below 50% of OEL
Existing Control(s)	Ventilation - Painting Operations - Paint Booth Vehicle Spray (Hood/Booth - Paint Booth); Ventilation - Miscellaneous Operations - Other (Hood/Booth - Component C (right side)); Ventilation - Miscellaneous Operations - Other (Hood/Booth - Component A (Left Side)); Ventilation - Miscellaneous Operations - Downdraft Table (Hood/Booth - Structural Fiberglass Downdraft Table); Ventilation - Miscellaneous Operations - Downdraft Table (Hood/Booth - Component B (Down Draft Table)); Gloves - N-DEX (Nitrile Gloves); Eyes - Safety Glasses (Safety Glasses); Body/Clothing - Coveralls, Cotton (Military Issue Cotton Coveralls)		
Process(es)	Sanding Aircraft Parts (Monthly 4-6 hours)		

