



United States Air Force

Occupational and Environmental Health Exposure Data

Reference: AFI 48-145



Current as of Date: 21 Oct 2015

Date Printed: 27 Oct 2015

Workplace	Risk Categorization	Installation	Organization	# of SEGs	# of Personnel
310A-Structural Maintenance (WPID: MXSM-310A)	1 - High Risk	Keesler AFB (AETC)	403 MAINTENANCE SQ FFXKWO, MS	1	9

NOTE: This report includes occupational health risk assessment data from the Defense Occupational & Environmental Health Readiness System for Industrial Hygiene (DOEHRS-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

310A1-STRUCTURAL MAINTENANCE DUTIES

Administrative Controls/Training

Training - Lead; Training - Confined Spaces; Training - Chromium and Chromates; Training - Cadmium; Natural Dilution - Natural Dilution; Miscellaneous - Work/Rest Cycles; Miscellaneous - Rest Breaks

Workplace Description

Personnel perform structural maintenance duties to include removing paint from sheet metal, repair sheet metal, paint sheet metal, perform bead blasting duties, and prime and spray paint aircraft

Exposure Group: 310A1 STRUCTURAL MAINTENANCE DUTIES # SEG Personnel: 12

Health Hazard	Regulatory Limit	Measured Exposure	Exposure Determination
CHROMIUM(VI) (Inhalation) (OSHA exp std)(TLV-A1: Confirmed Human Carcinogen)	.005 mg/m3 (8 hr TWA)	.014578 mg/m3 (Hazard Ratio: 2.9156)	Above OEL

Existing Control(s)

Process(es)

310A-09 Priming Aircraft & Aircraft Components (2-3 Times/Month 2-4 hours)

STRONTIUM CHROMATE (Inhalation) (OSHA exp std)(TLV-A2: Suspected Human Carcinogen)	.0005 mg/m3 (8 hr TWA)	.007181 mg/m3 (Hazard Ratio: 14.36)	Above OEL
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Existing Control(s)

Ventilation - Painting Operations - Large Paint Booth (Ventilation); Respirator - Respirator (Hood), Respirator - Respirator (Half Face Respirator), Respirator - Respirator (Full Face Respirator); Process Isolation - Process Isolation (Regulated Area); Gloves - Other (Barrier Gloves); Gloves - Neoprene (Neoprene Gloves); Body/Clothing - Coveralls Tyvek® (Tyvek Coveralls)

Process(es)

310A-09 Priming Aircraft & Aircraft Components (2-3 Times/Month 2-4 hours)

NOISE	85 dBA (8 hr TWA)	95.1	Above OEL
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Existing Control(s)

Ventilation - Painting Operations - Large Paint Booth (Ventilation); Hearing - Earplug (Moldex Earplugs), Hearing - Earplug (E.A.R. Classic Earplugs), Hearing - Earplug (E.A.R. Classic Earplug), Hearing - Ear/Circumaural Muff (Lightning L3 Earmuffs)

Process(es)

310A-26 Aircraft Composite Repair (Quarterly 2-4 hours),
310A-16 Truss Mount Changeout (2-3 Times/Year 4-6 hours),
310A-07 Grinding/Sanding Sheet Metal & Parts (Daily 2-4 hours),
310A-06 Cutting Sheet Metal (Daily 30-60 minutes),
310A-02 Bead Blasting (2-3 Times/Week 2-4 hours),
310A-01 Aircraft Sheet Metal Patching (2-3 Times/Week 6-8 hours)