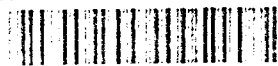


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**CROSS REFERENCE INDEX FOR BIOENVIRONMENTAL
ENGINEER AND MILITARY PUBLIC HEALTH OFFICES**

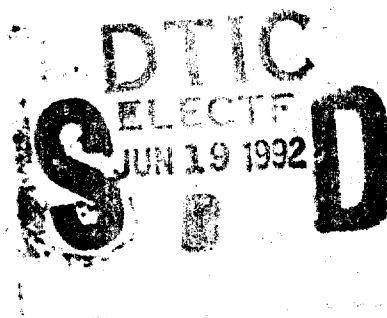
Paul T. Johnson, Master Sergeant, USAF
P. Diane Bright, Captain, USAF, BSC

**OCCUPATIONAL AND ENVIRONMENTAL
HEALTH DIRECTORATE**
Brooks Air Force Base, TX 78235-5000

May 1992

Final Technical Report

92-15832



Approved for public release; distribution is unlimited.

AIR FORCE SYSTEMS COMMAND
BROOKS AIR FORCE BASE, TEXAS 78235-5000

ARMSTRONG
LABORATORY

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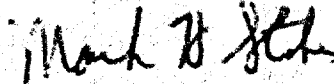
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FOREWORD

This publication is prepared by the Armstrong Laboratory, Occupational and Environmental Health Directorate, Occupational Medicine Division for the purpose of assisting United States Air Force Bioenvironmental Engineering and Military Public Health Offices in conducting routine activities. The material presented in this document is not intended for promotional or advertising purposes and should in no way be construed as an endorsement of any product. Views expressed herein are those of the authors and reviewers and do not necessarily reflect the views of the United States Air Force or the Department of Defense.

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BIOENVIRONMENTAL ENGINEER AND
MILITARY PUBLIC HEALTH OFFICES**

ALPHABETICAL LISTING

ADMINISTRATION

AFOSH Standards Index (See ADMINISTRATION "Indexes to Publications and Forms")

AF Technical Orders

AFR 8-2	AF Technical Order System
T.O. 00-5	AF Technical Order Index
T.O. 00-5-2	Technical Order Distribution System

Bibliography of USAF OEHL/Armstrong Laboratory Technical Reports by Year

T.R. 87-069	USAFOEHL Reports, 1 Jan 86 - 31 Dec 86
T.R. 88-072	USAFOEHL Reports, 1 Jan 87 - 31 Dec 87
T.R. 89-050	AFOEHL Reports, 1 Jan 88 - 31 Dec 88
T.R. 90-037	AFOEHL Reports, 1 Jan 89 - 31 Dec 89
T.R. 91-0035	AFOEHL Reports, 1 Jan 90 - 31 Dec 90

Communicative Skills

AFR 10-1	Preparing Written Communication
AFP 13-2	"Tongue and Quill"
AFR 13-5	USAF Effective Writing Course
AFP 190-39	Aerospace Speechmaking Guide

Files Maintenance and Publications Management

AFP 4-31	Records Maintenance and Disposition Training
AFR 4-61	Publication Libraries and Sets
AFR 5-1	Air Force Publications Management Program
AFR 12-1	Air Force Records Management Program
AFR 12-20	Management of Records
AFR 12-50	Disposition of Air Force Documentation

Indexes to Publications and Forms

AFR 0-2	Numerical Index of Standard and Recurring Air Force Publications
AFR 0-8	Numerical Index of Specialty Training Standards and Air Force Job Qualification Standards
AFR 0-9	Numerical Index of Departmental Forms
AFR 0-11	Index of Disaster Preparedness Training Packages
AFR 0-13	Civilian Personnel Publications
AFR 0-14	Engineering and Miscellaneous Federal and Commercial Publications
AFR 0-15	Numerical Index of Specialized USAF Intelligence (USAF Intelligence Pubs.)

AFR 0-17	Air Force Occupational Safety and Health (AFOSH) Standards, Department of Labor, Occupational Safety and Health Standards (OSHA), & Health (NIOSH) Publications
AFR 8-2	Air Force Technical Order System
AFR 8-14	Air Force Occupational Safety and Health (AFOSH) Standards System

Medical Records Access (See OCCUPATIONAL HEALTH "Medical Records")
Standardized Air Force Terminology (See also Appendix A)
 AFM 11-1 US Air Force Glossary of Standardized Terms

AEROSPACE MEDICINE

Aerospace Medicine Program Responsibilities
 AFP 161-18 Flight Surgeon's Guide
 AFR 161-33 The Aerospace Medicine Program

Aircraft Mishap Investigation (See also SAFETY)
 AFR 160-109 Medical Investigation of Aircraft Mishap Fatalities

Biostatistics
 AFR 161-33 The Aerospace Medicine Program
 AFR 168-4 Administration of Medical Facilities

Combat Support
 AFM 1-10 Combat Support Doctrine

AIR

Air Pollution
 T.R. 88-070 Manual Calculation Methods for Air Pollution Inventories, May 1988 (DTIC Accession No.: AD-A198288)

Emissions
 USAFOEHL Report 88-070EQ011EEB
 AFR 19-7 Environmental Pollution Monitoring

Environmental Protection
 40 CFR 50-87 Protection of the Environment: Subchapter C Air Programs

Indoor Air Quality
 AFR 30-27 Smoking in Air Force Facilities
 AFM 85-12 Operation & Maintenance of Central Heating Plants & Distribution Centers
 AFM 85-44 Heating, Cooling, Ventilating Handbook
 T.R. 90-169 Recommended Carbon Dioxide and Relative Humidity Levels for Maintaining Acceptable

	Indoor Air Quality (DTIC Accession No.: AD-A230026)
T.R. 92-0016	Guide for Indoor Air Quality Surveys
29 CFR 1910.94	Occupational Safety and Health Standards (Ventilation)
AIHA	"Heating and Cooling for Man in Industry"
NIOSH 91-108	Environmental Tobacco Smoke in the Workplace. Lung Cancer and Other Health Effects

AIRCRAFT

Accidents and Investigation (See SAFETY)

Washracks

AFR 86-2	Standard Facility Requirements
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ANIMAL

Capture Agents

T.R. 90-007	Animal Capture Agents, Jan 90 (DTIC Accession No.: A218503)
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Claims

AFR 112-1	Claims and Tort Litigation
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Training Aids for Working Dogs

T.R. 89-130	"Military Dog Training Aids: Toxicity and Treatment," Nov 89
-------------	---

Veterinary Health Services

AFR 163-5	Veterinary Health Services
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ASBESTOS

Exposure to Asbestos

NIOSH 77-169	Occupational Exposure to Asbestos
AFOSH 161-4	Exposure to Asbestos
AFR 88-15	Criteria and Standards for AF Construction Section 1-29, "Asbestos Materials Policy"
AFR 127-12	AF Facility Occupational Safety, Fire Prevention and Health Program
NIOSH 89-121	Control of Asbestos Exposure During Brake Drum Service
NIOSH 90-119	An evaluation of Glove Bag Containment in Asbestos Removal

BROKEN ARROW

Guidance

T.R. 83-115	A Broken Arrow Guide for Base Bioenvironmental Engineers
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T.R. 84-001	Broken Arrow Checklist for Bioenvironmental Engineers
Department of Transportation (DOT) P 5800.5	Emergency Response to Hazardous Materials Incidents
NIOSH	"Pocket Guide to Chemical Hazards," CDC, Jun 90
DOD 5100.52M	Nuclear Weapon Accident Response Procedures

CHILD DEVELOPMENT

Child Development Program

AFR 215-1	Air Force Morale, Welfare and Recreation (MWR) Programs & Activities
AFR 215-27	Child Development Program
AFR 214-4	Air Force Child Care Program Activities

Facilities

AFM 86-2	Standard Facility Requirements
AFP 88-38	Child Development Centers
AFM 88-30	Children's Outdoor Play Areas
AFR 88-50	Criteria for Design & Construction of Air Force Health Facilities
AFP 88-53	Design Guide for Youth Centers

Sanitation and Safety

AFR 161-26	Control of Foodborne Illnesses
AFR 161-34	Public Facility Sanitation

CLAIMS

Animal Damage (See ANIMALS)

Compensation

AFR 40-810	Injury Compensation
AFR 112-1	Claims and Tort Litigation

Hazard Survey

NIOSH 74-127VI	National Occupational Hazard Survey, Volume I, Survey Manual
----------------	--

CLEAR ZONES

Fuel Servicing and Storage

AFOSH Std 127-39	Fuel Servicing Operations
AFOSH Std 127-43	Flammable and Combustible Liquids
AFOSH Std 127-40	Fuels Storage Systems

COMMUNICABLE DISEASE

Control of Communicable Diseases

AFP 50-6	Prevention of Contagious Diseases and Field Sanitation
AFR 161-6	Control of Communicable Diseases
AFR 161-7	Prevention and Control of Sexually Transmitted Diseases
Reference Book	"Control of Communicable Diseases In Man" (Current edition, Abram S. Benenson)

Epidemiologic Services

AFR 161-12	USAF Epidemiologic Services
------------	-----------------------------

Hospital Employee Health Program

AFR 161-13	Immunization and Chemoprophylaxis
AFR 161-33	The Aerospace Medicine Program
AFR 168-13	Quality Assurance and Risk Management in the AF Medical Service
AFR 168-4	Administration of Medical Activities
AFR 168-6	Persons Authorized Health Care, Health Benefits Charges and Billing Procedures
AFR 160-41	Infection Control in the AF Medical Service
CDC	"Guidelines for Infection Control in Hospital Personnel"

Immunizations

AFR 161-13	Immunizations and Chemoprophylaxis
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TB Detection and Control

AFR 161-29	Tuberculosis Detection and Control Program
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COMPUTER

Electronic Bulletin Board User's Guide

T.R. 91-0053	A User's Guide to the Armstrong Laboratory Electronic Information Exchange System (EIES) Bulletin Board System) (DTIC Accession No.: AD-A236192)
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Facilities

AFOSH 127-64	Data Processing Facilities
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Video Display Terminals

T.R. 90-043	Ergonomics and Radiation Effects from Video Display Terminals and Workstations, Apr 90
-------------	--

CONVERSION FACTORS (See Appendix B)

DRUGS AND ALCOHOL REHABILITATION

AFR 30-3	Social Actions Program
AFR 160-38	Family Advocacy Program

EDUCATION AND TRAINING

Course Announcements (USAF)

AFR 50-5	USAF Formal Schools (Policy, Responsibilities, General Procedures, and Course Announcements)
----------	--

Disaster Preparedness Training

AFR 0-11	Index of Disaster Preparedness Training Packages
----------	--

Effective Writing

AFR 13-5	USAF Effective Writing Course
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HAZCOM Training

AFOSH Std 161-21	Hazard Communication
------------------	----------------------

Health Promotion Aspects of Painting

T.O. 42A-1-1	Safety, Fire Precaution and Health Promotion Aspects of Painting and Paint Removal
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Instructors Handbook

AFM 50-62	Handbook for Air Force Instructors
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Occupational Health Training

AFR 161-33	The Aerospace Medicine Program
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On-the-job Training (OJT)

AFR 50-23	On-the-job Training (OJT)
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PFE Study Guide

AFP 50-34	Promotion Fitness Examination (PFE) Study Guide
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Speechmaking

AFP 190-39	Aerospace Speechmaking Guide
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ENVIRONMENT

Boilers and Incinerators

AFR 19-6	Air Pollution Control Systems for Boilers and Incinerators
----------	--

Dust Control

AFM 88-17	Dust Control for Roads, Airfields and Adjacent Areas
-----------	--

Effluent Standards

40 CFR 401-471 Protection of the Environment: Subchapter N -
Effluent Guidelines and Standards

Environmental Quality

AFP 19-5 Environmental Quality Control Handbook
AFR 19-7 Environmental Pollution Monitoring
AFR 19-8 Environmental Protection Committees and
Environmental Reporting
EPA-600/4-89-017 Compendium of Methods for the Determination of
Toxic Organic Compounds in Ambient Air

Hazardous Waste Standards

40 CFR 262.12 Protection of the Environment: Standards
Applicable to Generators of Hazardous
Waste (EPA ID Numbers) Subpart A

Impact Analysis

AFR 19-2 Environmental Impact Analysis Process
AFR 19-3 Environmental Impact Analysis Process (Overseas)

Installation Restoration Program

T.R. 89-119 Installation Restoration Program Information
Management System (IRPIMS) Data Loading
Handbook VERS. 2.1, (DTIC Accession No.:
AS15883)

Pollution Monitoring (See also AIR)

40 CFR 122-125 Protection of the Environment: National
Pollutant Discharge Elimination (Permits,
Criteria, Standards)
40 CFR 220-233 Protection of the Environment, Subchapter H -
Ocean Dumping

ERGONOMICS**Video Display Terminals**

T.R. 90-043 Ergonomics and Radiation Effects from Video
Display Terminals and Workstations, April
90 (DTIC Accession No.: AD-A222139)
T.R. 1991-0082 Ergonomics Manual

EQUIPMENT**Calibration**

AFOSH Std 127-90 Precision Measurement Equipment Laboratory (PMEL)

Engines

NIOSH 90-112 Engine and Turret Lathe Safety Guide

Equipment Loan

T.R. 90-132

Equipment Loan Inventory AUG 90 (DTIC
Accession No.: AD-A228553)**Machinery**

AFOSH Std 127-12 Machinery

Portable Direct Reading Instruments

T.R. 91-0087

Portable Direct Reading
Instruments**Portable Ladders**

AFOSH Std 127-4 Portable Ladders

Tractors

AFOSH Std 127-54 Agricultural Tractors and Implement Attachments

FACILITIES**Child Care (See CHILD DEVELOPMENT)****Clubs and Recreation Buildings**

AFP 88-1

Open Messes

AFP 88-46

Multipurpose Recreation Facilities

Design

AFM 88-15

Air Force Design Manual - Criteria and Standards
for Air Force Construction

AFR 88-50

Criteria for Design and Construction of Air
Force Health Facilities

AFOSH Std 127-7

Scaffolding

T.R. 88-069

Design Criteria for Process Wastewater
Pretreatment Facilities, May 88 (DTIC
Accession No.: A 198 868)**Firing Ranges (See HAZARDOUS MATERIALS)****Floor Space Requirements**

AFM 86-2

Standard Facility Requirements

Indoor Air Quality (See AIR)**Plans Review for Ventilation**

AFOSH Std 161-2 Industrial Ventilation

Sanitation (See SANITATION)**Smoking (See AIR)****Wastewater Pretreatment Facilities (See WASTE DISPOSAL)**

FETAL PROTECTION (See Also APPENDIX D)

Human Milk Hazard

T.R. 85-185

A Guide to the Estimation of the Hazard
Presented by Chemicals in Human Milk

Pregnant Females

AFR 160-12

T.R. 88-130

CDC

NIOSH

Professional Policies and Procedures

"Women in the Workplace"

"Guidelines for Protecting the Safety & Health
of Health Care Workers"

"Reproductive Hazards in the Workplace"

FOOD INSPECTION

AAFES Food Products

ESM 1-2

ESM 25-1

Veterinary and Preventive Medicine Services
Food and Expense Supplies Purchase Description

Approved Sources

AFR 161-32

USDA

USDA

USDC

HSC

FDA

FDA

Food Safety and Inspection Programs

"Meat and Poultry Inspection Directory"

"Dairy Plants Surveyed and Approved for
USDA Grading"

"Approved List of Fish Establishments and
Products"

"Directory of Sanitarily Approved Food Establish-
ments for Procurement (CONUS)"

Interstate Milk Shippers List (IMSL)

Interstate Certified Shellfish Shippers
List (ICSSL)

Commissary Program

AFR 145-1

Air Force Commissary Program (Will change to DeCA
Directive 40-1)

Description (Specifications) of Meat Items

IMP

NAMPS

"Institutional Meat Purchase Specification"

"National Association of Meat Purveyor's"

DPSC Support

DOD 4155.6

Subsistence Inspection Manual

Hazardous Food Recall

AFR 161-42

DOD Hazardous Food and Nonprescription
Drug Recall System

Insects and Mite Pests in Food

AGR-HB-655

MIL-STD 904

Insects and Mite Pests in Food (DSN: 240-3214
Armstrong Lab/OEMB)

Guidelines for Detection, Evaluation and Prevention
of Pest Infestation of Subsistence

Inspection and Sampling

AFR 161-32	Food Safety and Inspection Program
MIL STD 105E	Sampling Procedures and Tables for Inspection by Attributes

Instorage Inspections

AFR 161-32	Food Safety and Inspection Program
DPSCM 4155.7	Instorage Quality Control and Inspections
DODR 4145.19-R-1	Storage and Materials Handling

Operational Rations

DPSC Hndbk 4155.2	and Appendices A - F Subsistence Inspection Composite Operational Rations
DODR 4145.19-R-1	Storage and Materials Handling

Responsibilities and Duties

AFR 161-32	Food Safety and Inspection Program
AFR 161-33	The Aerospace Medicine Program
ESM 1-2	Veterinary and Preventive Medicine Services
DPSCM 4155.6	DPSC Subsistence Inspection Manual

FUELS

Benzene (See HAZARDOUS MATERIALS)

TLV Rationale

T.R. 83-128	Rationale for a Threshold Limit Value (TLV) for JP-4/JET B Wide Cut Aviation Turbine Fuel
-------------	---

Handling and Storage

T.O. 42B1-1-18	General Procedures - Handling of H-70 Fuel (Hydrazine-Water Fuel) F-16
AFR 19-4	Management of Recoverable and Unusable Liquid Petroleum Products
AFOSH Std 127-38	Hydrocarbon Fuels, General
AFOSH Std 127-39	Fuel Servicing Operations
AFOSH Std 127-40	Fuels Storage Systems
AFOSH Std 127-42	Base Fuel Laboratories
AFOSH Std 127-43	Flammable and Combustible Liquids
46 CFR 38	Flammable Gases/Liquids

HAZARDOUS MATERIALS

Analysis

AFOEHL	Recommended Sampling Procedures, March 89 (Request through AL Library, Brooks AFB, Tx) DSN: 240-3421
T.R. 90-138	Contracting of Samples for Chemical Analyses - What You Should Know About It, (DTIC Accession No.: AD-A227896)

T.R. 90-150	Evaluation of Combustion Products of Used Harvey's Vapo-Steril Solution, Brooks AFB, Tx. (DTIC Accession No.: AD-A228807)
T.R. 90-225	Automation of a Large Analytical Chemistry Laboratory
NIOSH 77-157	NIOSH Manual of Analytical Methods 2nd Edition
EPA-600/4-89-017	Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air
Benzene	
29 CFR 1910.1028	Benzene
40 CFR 61	Air Pollution Control, National Emissions Standards for Hazardous Air Pollutants
AFOSH Std 161-7	Exposure to Benzene
AFOSH Std 161-8	Permissible Exposure Limits for Chemical Substances
Benzyl Chloride	
NIOSH 78-182	Occupational Exposure to Benzyl Chloride
Beryllium	
40 CFR 61	Air Pollution Control, National Emissions Standards for Hazardous Air Pollutants
AFOSH Std 161-8	Permissible Exposure Limits for Chemical Substances
Cements, Sealants and Coatings	
T.O. 42A3-1-2	General Use of Cements, Sealants and Coatings
Chemicals	
T.O. 42C-1-12	Quality Control of Chemicals
NIOSH	"Pocket Guide To Chemical Hazards"
AFP 19-5	Environmental Quality Control
Chemotherapeutic Agents Sampling	
T.R. 91-0060	Air Sampling for Chemotherapeutic Agents: A Literature Review (DTIC Accession No.: AD-A237983)
Ethylene Dichloride Exposure	
NIOSH 78-211	Occupational Exposure to Ethylene Dichloride
Firing Ranges	
AFM 86-2	Standard Facility Requirements
22 CFR 120	Arms and Munitions, General Policies & Provisions
ACGIH	Industrial Ventilation Manual
T.R. 77-4	Industrial Hygiene Survey of the Firing Range
	Underground Test Firing Range (Lackland AFB, Texas.)
Hazardous Waste	
AFR 19-11	Hazardous Waste Management and Minimization
AFR 19-14	Management of Recoverable and Unusable Liquid Petroleum Products

T.O. 42B-1-23	Management of Recoverable & Waste Liquid Products
40 CFR 264.50 Subpart D	Protection of the Environment: Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities
HAZCOM Training AFR 161-21	Hazard Communication
HAZMAT Regulations 49 CFR 171-180	Transportation Subtitle B, Chapter 1, Subchapter C - Hazardous Materials Regulations
Herbicides AFR 91-19	Weed Control and Plant Growth Regulation
HMIS User's Guide T.R. 85-003	USAF Hazardous Materials Information System (HMIS) User's Guide
Hydraulic fluids T.O. 42B2-1-3	Fluids for Hydraulic Equipment
Hydrazine AFOSH Std 161-13	Exposure to Hydrazine
Isocyanates T.R. 90-030	Sample Collection, Analysis & Respirator Use With Isocyanate Paints
Ketones NIOSH 78-173	Occupational Exposure to Ketones
Lead NIOSH 74-125 NIOSH 78-158 AFOSH Std 161-16	Working with Lead in Industry Occupational Exposure to Inorganic Lead Occupational Exposure to Inorganic Lead
Lubricants and Anti-seize Compounds T.O. 42B-1-6	Corrosion Preventive Lubricants, and Anti-Seize Compounds
Mercury in Industry T.O. 42c-1-18 NIOSH 74-120	Mercury for Use in Precision Measuring Equipment Including Reclamation Working With Mercury in Industry
Metal Treatments T.O. 42C2-1-7	Metal Treatments
Nitrogen Quality Control T.O. 42B7-3-1-1	Quality Control of Nitrogen

Nitrogen Tetroxide

AFM 161-30, Vol II

Chemical Rocket/Propellant Hazards, Liquid
Propellants**Organic Coating Materials**

T.O. 42A2-1-4

Storage Control of Organic Coating
Materials (Paints and Allied Materials)**PCB's**

40 CFR 761

Protection of the Environment: PCB's
Manufacturing, Processing, Distribution in
Commerce, and Use Prohibitions**Permissible Exposure Limits for Chemical Substances**

AFOSH Std 161-8

Permissible Exposure Limits for Chemical
Substances

ACGIH TLV

"Threshold Limit Values for Chemical Substances
and Physical Agents in the Workroom Environment"**Pesticides and Rodenticides (See PEST MANAGEMENT AND
MEDICAL ENTOMOLOGY)****Quality Control**

T.O. 42c-1-12

Quality Control of Chemicals

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T.O. 00-110N-14

Radioactive Test Sample, Krypton 85, GAMMA
MX7338/PDR-27R**Right-To-Know Programs**

40 CFR 300-373

Protection of the Environment Subchapter J -
Superfund, Emergency Planning and Community
Right-To-Know Programs**Toxic Substances Control**

40 CFR 700-799

Protection of the Environment Chapter 1
Subchapter R - Toxic Substances Control Act**Transportation and Pipeline Safety**

49 CFR 106-107

Transportation Subtitle B, Chapter 1,
Subchapter B - Hazardous Materials Transporta-
tion and Pipeline Safety**Vinyl Acetate Exposure**

NIOSH 78-205

Occupational Exposure to Vinyl Acetate

Vinyl Chloride Exposure

AFOSH Std 161-5

Exposure to Vinyl Chloride

HEARING CONSERVATION

Program Guidance

AFOSH Std 161-20	Occupational Health Hearing Conservation Program
AFR 161-35	Hazardous Noise Exposure
AFR 160-53	Medical Service Audiology Centers
AFR 161-15	Audiometer Booths for Medical Facilities
AFOSH Std 161-17	Standardized Occupational Health Program
T.R. 90-198	Defining Occupational Illnesses and Injuries

HEAT/COLD STRESS

Cold Injury

AFP 161-11	Cold Injury
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Prevention, Treatment Control

AFP 160-1	Prevention, Treatment and Control of Heat Injury
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Relative Humidity & Temperature Recorder

T.O. 3LCS-10-1	Instruction Manual - Portable Relative Humidity and Temperature Recorder
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INDUSTRIAL OPERATIONS

Aisle Space

AFOSH Std 127-66	General Industrial Operations
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Battery Storage

T.O. 8D2-3-1	Aircraft Nickel Cadmium Storage Batteries
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Brakes

AFOSH Std 127-66	General Industrial Operations
29 CFR 1910.68	

Communications Systems

AFOSH Std 127-50	Ground Communications Electronic (CE) Systems
AFOSH Std 127-51	Communications Cable and Antennae Systems

Confined Space Entry

29 CFR 1910.146	Confined Space Entry
AFOSH Std 127-5	Welding, Cutting and Brazing
AFOSH Std 127-25	Confined Space Entry
T.O. 1-1-3	Inspection & Repair of Aircraft Integral Tanks & Fuel Cells

Corrosion Control

AFR 85-3	Paints & Protective Coatings
AFR 91-27	Corrosion Control Program
AFR 400-44	Air Force Corrosion Program
T.O. 1-1-691	Aircraft Weapons Systems Cleaning and Corrosion Control

T.O. 1-1-8	Application of Organic Coatings, Aerospace Equipment
T.O. 35-1-3	Corrosion Prevention, Painting and Marking of USAF Support Equipment (SE)
T.O. 42c-1-14	Corrosive Chemical Material Neutralization

Degreasing Operations

T.O. 42c-1-20	Chemical Cleaning
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Dry Cleaning

40 CFR 60	Standards of Performance for New Stationary Sources
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Electroplating

AFOSH Std 161-2	Industrial Ventilation
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Emergency Shower and Eyewash Units (See SAFETY)

Eye Protection (See INDUSTRIAL OPERATIONS "Personal Protective Equipment")

Fire Protection

AFOSH Std 127-56	Fire Protection
AFR 92-1	Fire Protection Program
T.R. 1991-0071	Occupational Medical Surveillance Recommendations

Fuel Cell Repair

T.O. 1-1-3	Inspection and Repair of Aircraft Integral Tanks and Fuel Cells
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Gas Indicators/Detectors

T.O. 11H5-14-1	Combustible/Toxic Gas Indicator, Type R-2
T.O. 11H5-15-1	Carbon Monoxide Detector Kit, Type B-1
T.O. 11H5-17-1	OPN Instrument with IPB -- Combustible/Toxic Gas Indicator, Model TBA 5100-1
T.O. 11H5-2-11	USAF Type R-1 Explosimeter, Operations and Service
AIHA	Manual of Recommended Practice for Combustible Gas Indicators and Portable Direct Reading Hydrocarbon Detectors

General Operations

AFOSH Std 127-66	General Industrial Operations
40 CFR 51 App. B	Requirement for Preparation, Adoption, Submittal of Implementation Plans (Suspended Particulates High Volume Method)

Machinery

AFOSH Std 127-12	Machinery
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Non-Destructive Inspection (NDI)

AFOSH Std 127-110 Non-Destructive Inspection and Oil Analysis
Program

Personal Protective Equipment (PPE)

AFOSH Std 127-31 Personal Protective Equipment

Stairs and Surfaces

AFOSH Std 127-1 Walking Surfaces

AFOSH Std 127-3 Fixed Industrial Stairs

Welding

NIOSH 77-131 Welding Safety

MEDICAL READINESS

(See Also APPENDIX C "T.O. Listing For Medical Readiness")

Broken Arrow Guidance (See BROKEN ARROW)**Planning and Training**

AFR 28-4	USAF Mobility Planning
AFR 28-5	USAF Mobilization Planning
AFM 105-7	Field Behavior of NBC Agents (Includes Smoke and Incendiaries)
AFR 160-25	Medical Readiness Planning and Training
AFP 161-3	NATO Handbook on the Medical Aspects of NBC Defensive Operations AMed P-6
AFR 355-1	Planning and Operations
AFR 355-2	Nuclear Weapon Accident Response Procedures (NARP)
AFR 355-3	AF Personnel Shelter Program
AFR 355-4	Chemical Weapons Employment
AFR 355-6	Technical Aspects of Biological Defense
AFR 355-8	Mission Oriented Protective Postures: Minimizing Performance Degradation During Chemical Defense Operations

NOISE**Noise Abatement**

40 CFR 201-211 Protection of the Environment Subchapter
G - Noise Abatement Programs

Noise Level Measurements

T.R. 89-103 Measuring Day-Night Noise Levels (DNL)
Using the Metrosonics DB-310 Sound Level
Analyser (Dosimeter) September 89 (DTIC
Accession No.: AD-A215757)

Planning in the Noise Environment

AFM 19-10

Planning in the Noise Environment

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NIOSH-07-91
T.R. 90-198

NIOSH Publications on Noise and Hearing
Defining Occupational Illnesses and Injuries

OXYGEN

Compressed Air

AFM 88-8

Compressed Air

Cylinders

T.O. 42B5-1-2
T.O. 42B6-1-1

Gas Cylinders (Storage Type)
Quality Control of Oxygen Propellant, Liquid
Oxygen, Aviator's Liquid Breathing Oxygen
and Aviator's Gaseous Breathing Oxygen

OCCUPATIONAL HEALTH

Anesthetic Gases

CDC
CDC

"Guidelines for Health Care Workers"
"Reproductive Hazards in the Workplace"

Boilers and Incinerators

AFR 19-6

Air Pollution Control Systems for Boilers
and Incinerators

Cancer Clusters

T.R. 90-168

Investigating Cancer Clusters (DTIC
Accession No.: AD-A230053)

Carcinogens

NIOSH 77-206
NIOSH 90-116

ACGIH TLV

Working with Carcinogens
Preventing Bladder Cancer from Exposure to
o-Toluidine and Aniline
"Threshold Limit Values for Chemical Substances
and Physical Agents in the Workroom Environment"

Chemical Hazards and Exposure Control

NIOSH 89-104

NIOSH 90-116

NIOSH 90-118

Occupational Safety and Health Guidelines for
Chemical Hazards, Supplement 2
Preventing Bladder Cancer from Exposure to
o-Toluidine and Aniline
Occupational Exposure to Ethylene Glycol
Monobutyl Ether and Ethylene Glycol Monobutyl
Ether Acetate

Composite Fibers

T.R. 90-226 Composite Fiber Hazards

Hazard Communication

AFOSH 161-21 Hazard Communication

Laboratory Services

AFR 161-17 USAF Occupational and Environmental Health Laboratory (OEHL) Services
T.R. 90-216 AFOEHL Bioassay Services, Dec 90
AFOSH Std 127-42 Base Fuel Laboratories
AFOSH Std 127-90 Precision Measurement Equipment Laboratory

Laser Radiation

AFOSH Std 161-10 Health Hazards Control for Laser Radiation

Lead

NIOSH 74-125 Working with Lead in Industry
OSHA 3126 Working with Lead in the Construction Industry

Medical Records Access

29 CFR 1910.20 Occupational Safety & Health Standards
(Access to Employee Exposures and Medical Records)

Medical Treatment Facility Employee Health

NIOSH 75-101 Hospital Occupational Health Services Study

Occupational Health Examinations Recommendations

T.R. 91-0071 Occupational Medical Surveillance
Recommendations

Occupational Illness and Injuries

AFR 127-4 Investigating and Reporting US Air Force Mishaps
AFR 127-12 Air Force Occupational Safety and Health Program
AFR 161-33 Aerospace Medicine Program
T.R. 90-198 Defining Occupational Illness and Injuries
(DTIC Accession No.: AD-A231513)
T.R. 91-0036 USAF Occupational Illness Annual Summary,
FY 1990 (DTIC Accession NO.: AD-A234854)
NIOSH 77-181 Occupational Diseases: A Guide to Their
Recognition
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Program

AFOSH 161-17 Standardized Occupational Health Program
29 CFR 1900-999 Labor Chapter XVII
Occupational Safety and Health Administration,
Department of Labor (PARTS 1900-1999)
NIOSH 88-8017 NIOSH Recommendations for Occupational
Safety and Health Standards for 1988

Pregnant Active Duty Females (See FETAL PROTECTION)

Radiofrequency Radiation Exposure

AFOSH 161-9 Exposure to Radiofrequency Radiation

Respiratory Protection (See "RESPIRATORY PROTECTION")

AFOSH Std 161-1 Respiratory Protection Program

Solvents (See HAZARDOUS MATERIALS)**Surveys**

OSHA 2098 OSHA Inspections

Target Organs

AFOSH Std 161-3 Atch 1 for Target Organs

Women in the Workplace

T.R. 88-130 Women in the Workplace
T.R. 91-0068 Women in the Military Cockpit
AFOSH Std 127-66 General Industrial Operations

PERSONNEL**Assignments**

AFR 36-20 Officer Assignments
AFR 39-11 Airman Assignments

Awards

AFR 900-79 Cleveland L. Parker Environmental Health
 Technician of the Year Award
AFR 900-XX Public Health Officer of the Year
AFR 40-452 Performance Management Program
AFR 900-48 Individual and Unit Awards and Decorations

Career Progression

AFR 35-16 The USAF Reenlistment, Retention, and NCO
 Status Programs
AFR 36-1 Officer Classification
AFR 36-5 Appointment of Officers in the Regular
 Air Force
AFP 36-13 Officer Professional Development Guide
AFP 36-22 Officer Career Information
AFR 36-23 Officer Professional Development
AFP 36-29 Officer Career Planner United States Air Force
AFR 36-32 "You and Your Promotions," The Air Force Officer
 Promotion System
AFR 39-1 Airman Classification
AFR 39-6M The Enlisted Force Structure
AFR 39-7 Airman Career Information
AFP 39-8 The Weighted Airman Promotion System (WAPS)
 Study Reference List
AFR 39-19 Airman Career Planner
AFR 39-29 Promotion of Airmen
AFR 50-23 On-the-job Training (OJT)

AFP 50-34

Promotion Fitness Examination (PFE) Study
Guide

Civilian Personnel

AFR 40-11
AFR 40-735
AFR 40-810

Civilian Standards
Civilian Conduct and Responsibility
Injury Compensation

Dress and Personal Appearance Standards

AFR 35-10

Dress and Personal Appearance of Air Force
Personnel

Evaluation Reports

AFR 36-10
AFR 39-15
AFR 39-62

Officer Evaluation System
Airman & NCO Performance Feedback System
The Enlisted Evaluation System (EES)

Standards of Conduct

AFR 30-30

Standards of Conduct

Temporary Duty (TDY)

AFP 40-7
AFR 35-26

Temporary Duty Travel
Permissive Temporary Duty

Weight and Fitness

AFR 35-11

The Air Force Weight and Fitness Program

**PEST MANAGEMENT AND
MEDICAL ENTOMOLOGY PROGRAM**

Aerial Dispersal

AFR 91-22

Aerial Dispersal of Pesticides

Entomology Program

AFR 91-21
AFM 91-16
AFR 161-1

Pest Management Program
Military Entomology Operational Handbook
Medical Entomology Program

Pesticide Programs

40 CFR 152-186

Protection of the Environment Subchapter
E - Pesticide Programs

Pests in Food (See FOOD INSPECTION)

Quarantine

AFR 161-4

Medical & Agricultural Foreign and Domestic
Quarantine Regulations for Vessels, Aircraft
and Other Transport of Armed Forces

Venomous Arthropods

AFP 161-43

Venomous Arthropod Handbook

PHYSICAL EXAMINATION

Administration (Scheduling, Standards and Disposition)

AFM 12-50	Disposition of Air Force Records - Records Disposition Standards
AFR 30-130, Vol I	Base Level Military Personnel System, Users Manual
AFR 161-33	The Aerospace Medicine Program
AFR 168-4	Administration of Medical Activities
AFR 92-1	Fire Protection Program
AFR 92-3	Firefighter Physical Fitness Program

Civilian Duty Restrictions

AFR 40-716	Fitness for Duty Examinations and Resulting Personnel Action
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Diagnostic X-Ray Procedures

AFM 161-38	Diagnostic X-Ray, Therapeutic X-Ray, and Gamma-Beam Protection for Energies Up to 10 Million Electron Volts
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Examinations

AFR 160-43	Medical Examination and Medical Standards
AFOSH Std 161-17	Standardized Occupational Health Program
AFR 160-17	Physical Examination Techniques

Fire Fighters

AFR 92-1	Fire Protection Plan
AFR 92-3	Firefighter Physical Fitness Program
T.R. 1991-0071	Occupational Medical Surveillance Recommendations

Laser

AFOSH Std 161-10	Health Hazards Control for Laser Radiation
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Radiological Hazards

AFR 160-132	Control of Radiological Health Hazards
AFOSH Std 161-9	Exposure to Radiofrequency Radiation

Vector-borne Disease

AFR 161-1	Medical Entomology Program
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RADIATION

Dosimetry Program

AFR 161-28	USAF Personnel Dosimetry Program and Waste Radiation Exposure Registry
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Electromagnetic Radiation

T.O. 31Z-10-4	Electromagnetic Radiation Hazards
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Electron Tubes

T.O. 00-110N-7 Handling and Disposition of Radioactive
Electron Tubes and Spark Gaps

Intrinsic Radiation

T.O. 88-071RC0111EXX
The INRAD Handbook

Ionizing Radiation

T.R. 85-144 Ionizing Radiation Guidebook for Bio-
environmental Engineers (BEE'S)

Non-ionizing Radiation

T.R. 90-043 Ergonomics and Radiation Effects From Video
Display Terminals and Workstations
T.R. 87-091 Laser Range Evaluation Guide for Bioenviron-
mental Engineers
T.R. 89-023 Base Level Management of Radio Frequency
Radiation Protection Program (DTIC Accession
No.: A211759)

Non-Destructive Inspection Methods

T.O. 33B-1-1 Non-Destructive Inspection (NDI) Methods
T.R. 89-026 Evaluation of Ultraviolet (UV) Radiation
Hazards in Non-destructive Inspection (NDI)
Operations

Radiation Assistance Program (RAP)

T.R. 85-083RI111ERC Summary Assessment of Base Level RAP Visits for
the Period Jul-Dec 84

T.R. 85-193RI111MRC Summary Assessment of Base Level RAP Visits for
the Period Jan-Jun 85

T.R. 86-066RI0111GRC Summary Assessment of Base Level RAP Visits for
the Period Jul-Dec 85

Radiation and Radioactive Material Protection

AFOSH Std 161-10 Health Hazards Control for Laser Radiation
40 CFR 190-192 Protection of the Environment Subchapter
F - Radiation Protection Programs
AFR 161-16 Control of Radioactive Material
AFR 161-28 USAF Personnel Dosimetry Program and Waste
Radiation Exposure Registry

T.O. 00-110A-1 Guidelines for Identification and Handling
of Aircraft and Materiel Contaminated with
Radioactive Debris (Fallout)

T.R. 85-144 Ionizing Radiation Guidebook for Bio-
environmental Engineers (BEE'S)

Radioactive Waste Material (See WASTE DISPOSAL)

Radiofrequency Program and Damage Assessment

T.R. 89-023 Base Level Management of Radio Frequency
Radiation Protection Program (DTIC Accession
No.: A211759)

T.R. 85-144 86-020

Assessing Possible Damage Due to Radio
Frequency Radiation

Radon

T.R. 87-132RZ011KRD

The Bioenvironmental Engineer's Primer to the
Air Force Radon Assessment and Mitigation
Program (RAMP)

RESPIRATORY PROTECTION

Programs

NIOSH 78-193A Respiratory Protection: An Employer's Manual
AFOSH Std 161-1 Respiratory Protection Program

Quality Control

T.O. 42B6-1-1 Quality Control of Oxygen Propellant, Liquid
Oxygen, Aviator's Liquid Breathing Oxygen, and
Aviator's Gaseous Breathing Oxygen
T.O. 42B-1-22 Quality Control of Compressed and Liquid
Breathing Air

SAFETY

Accident Reporting and Prevention

AFR 127-1, Vol 1 US Air Force Guide to Mishap Investigation
AFR 127-1, Vol 2 Investigative Techniques
AFR 127-1, Vol 3 Safety Investigation Workbook
AFR 127-2 The US Air Force Mishap Prevention Program
AFR 127-4 Investigating and Reporting US Air Force
Mishaps
AFR 127-11 Participation in a Military or Civil Aircraft
Investigation

Ammunition (See SAFETY "Explosives")

Chemical

AFOSH Std 127-68 Chemical Safety

Communications

AFOSH Std 127-50 Ground Communications Electronic (CE) Systems

Electrical

AFR 160-3 Electrical Safety in Medical Treatment
Facilities
NEC National Electric Code

Emergency Shower and Eyewash Units

AFOSH Std 127-32 Emergency Shower and Eyewash Units
29CFR 1910.151 Occupational Safety & Health Standards
ANSI Z358.1-90 Emergency Eyewash & Shower Equipment

Explosives

AFR 127-100 Explosive Safety Standards .

Fire Extinguishers

AFR 92-1 Fire Protection Program

Fire Protection

AFOSH Std 127-56 Fire Protection

Gas Indicator

T.O. 11H5-14-1 Combustible/Toxic Gas Indicator, Type R-2

General Operations

AFOSH Std 127-66 General Industrial Operations
40 CFR 51 Appendix B
Requirement for Preparation, Adoption,
Submittal of Implementation Plans (Suspended
Particulates High Volume Method)

Liquid Nitrogen and Oxygen

AFOSH Std 127-67 Liquid Nitrogen and Oxygen Safety

Lockout/Tagout

AFR 127-45 Hazardous Energy Control and Mishap Prevention
Signs and Tags

Mishap Prevention

AFR 127-2 The US Air Force Mishap Prevention Program

Non-Destructive Inspection (NDI)

AFOSH Std 127-110 Non-Destructive Inspection and Oil Analysis
Program

Personal Protective Equipment (PPE)

AFOSH Std 127-31 Personal Protective Equipment

Safety Program

AFR 127-12 Air Force Occupational Safety, Fire Prevention
and Health
AFR 800-16 USAF System Safety Program

Stairs

AFOSH Std 127-3 Fixed Industrial Stairs

Surfaces

AFOSH Std 127-1 Walking Surfaces

Vehicles

AFR 19-4 Use and Control of Off-Road Vehicles

Washracks, Aircraft

AFM 86-2

Standard Facility Requirements**SANITATION****Eating and Drinking Facilities**

NIOSH 76-163

Health and Safety Guide for Eating and
Drinking Places

AFR 161-26

Control of Foodborne Illnesses

Public Facilities

AFM 88-8

Plumbing

AFR 161-14

Swimming Pools and Bathing Areas

AFR 161-34

Public Facility Sanitation

AFR 215-27

Child Development Program

AFOSH Std 127-8

Medical Facilities

AFOSH Std 127-301

Billeting Operations

AFOSH Std 161-6

General Sanitation

29 CFR 1910.263

Occupational Safety and Health

SEWAGE (See Also WASTE DISPOSAL)**Pretreatment**

T.R. 88-069EQ

Design Criteria for Process Wastewater
Pretreatment Facilities, May 88 (DTIC Accession
No. A198868)**Sludge**

40 CFR 501

Protection of the Environment Subchapter
O - Sewage Sludge**Maintenance and Operation of Plants**

AFR 91-9

Water Pollution Control Facilities

AFR 91-32

Operation and Maintenance of Domestic and
Industrial Wastewater Systems**TANKS****Storage Tanks (Underground)**

40 CFR 280

Protection of the Environment: Technical
Standards and Corrective Action Requirements
for Owner/Operators of Underground Storage
Tanks

TRANSPORTATION

Hazardous Materials

49 CFR 106-107 Trans. Subtitle B, Chap 1, Subc B - Hazardous Materials, Transportation and Pipeline Safety

VENTILATION

AFM 85-12	Operation & Maintenance of Central Heating Plants & Distribution Centers
AFM 85-44	Heating, Cooling, Ventilating Handbook
AFM 88-15	Air Force Design Manual, Criteria and Standards for Air Force Construction
AFR 88-50	Criteria for Design and Construction of Air Force Health Facilities
AFOSH Std 161-2	Industrial Ventilation
NIOSH 91-108	Environmental Tobacco Smoke in the Workplace. Lung Cancer and Other Health Effects
T.R. 90-169	Recommended Carbon Dioxide and Relative Humidity Levels for Maintaining Acceptable Indoor Air Quality (DTIC Accession No.: AD-A230026)
T.R. 92-0016	Guide for Indoor Air Quality Surveys
29 CFR 1910.94	Occupational Safety and Health Standards (Ventilation)
AIHA	"Heating and Cooling for Man in Industry"

WASTE DISPOSAL

Electron Tubes and Spark Gaps

T.O. 00-110N-4 Handling and Disposition of Radioactive Electron Tubes and Spark Gaps

Hospital Waste

T.R. 91-0047 Infectious and Hazardous Waste Protocol for Medical Facilities (DTIC Accession No.: AD-A236346)

Krypton 85

T.O. 0-110N-11 Handling, Storage, and Disposal of Krypton 85 Radioactive Source

Lensatic Compasses

T.O. 00-110N10 Requisitioning, Use and Disposition of Lensatic Compass, NSN: 6605-00-846-7618YS

Petroleum

T.O. 42B-1-23 Management of Recoverable and Waste Liquid Petroleum Products

Radioactive Waste

T.O. 00-110N-2 Radioactive Waste Disposal

T.O. 00-110N-3 Requisition, Handling, Storage, and
Identification of Radioactive Material
T.O. 00-110N-4 Acquisition, Use, Storage, and Disposition
of Nuclear Source Material

Sanitary Landfills

AFR 91-8 Solid Waste Management
AFR 91-11 Solid Waste Management

Solid Waste

40 CFR 240-281 Protection of the Environment Subchapter
I - Solid Wastes
T.R. 88-069 Design Criteria for Process Wastewater
Pretreatment Facilities, May 88 (DTIC Accession
No.: AD-1989868)
40 CFR 264.50 Subpart D
Protection of the Environment: Standards for
Owners and Operators of Hazardous Waste
Treatment, Storage and Disposal Facilities

WATER

Discharge

40 CFR 122.26 Protection of the Environment 122.26
NPDES (Storm Water Discharge State Programs)
T.R. 84-168 Ground Water Hydrology Workbook
T.R. 88-069 Design Criteria for Process Wastewater
Pretreatment Facilities, MAY 1988 (DTIC
Accession No.: AD-A198868)
T.R. 91-0049 Water Vulnerability Assessments (DTIC
Accession No.: AD-A235689)

Fluoridation/Defluoridation (See WATER "Water Programs")

Navigable Waters

33 CFR 330 Navigation and Navigable Waters
Chapter II, Part 330 - Nationwide Permits

Water Programs

40 CFR 104-149 Protection of the Environment Subchapter
D - Water Programs
AFR 161-44 Management of the Drinking Water Surveillance
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APPENDIX A
ABBREVIATIONS

Appendix A

**APPENDIX A
ABBREVIATIONS**

Alphabetical Listing

AFOEHL Air Force Occupational and Environmental Health Lab

ACGIH American Conference of Governmental Industrial Hygienists

AFESC Air Force Engineering Services Center

AFM Air Force Manual

AFOSH STD Air Force Occupational Safety & Health Standard

AFP Air Force Pamphlet

AFR Air Force Regulation

AGE Aerospace Ground Equipment

AICUZ Air Installation Compatibility Use Zone

AIHA American Industrial Hygiene Association

AL Armstrong Laboratory

AL/OE Armstrong Laboratory, Occupational and Environmental Health Directorate

ANSI American National Standards Institute

AUTOVON See DSN

CBPO Consolidated Base Personnel Office

CCPO Consolidated Civilian Personnel Office

CDC Centers for Disease Control

CE Civil Engineering

CERCLA Comprehensive Environmental Repsonse, Compensation, and Liability Act

CFR Code of Federal Regulations

CHAP Children Have a Potential

DEQPPM Defense Environmental Quality Program Policy Memorandum

Appendix A

DOD Department of Defense
 DOT Department of Transportation
 DSN Digital Switching Network (Replaced AUTOVON).
 Telephone Dialing System
 EIES BBS Electronic Information Exchange System,
 Bulletin Board System
 EPA Environmental Protection Agency
 HAZCOM Hazard Communication Right-to-Know Program
 IAQ Indoor Air Quality
 JCAHO Joint Commission on Accreditation of Health
 Organizations
 MMWR Morbidity and Mortality Weekly Report
 MSDS Material Safety Data Sheet
 NBC Nuclear Biological Chemical
 NCRP National Council on Radiation Protection &
 Measurement
 NDI Non-destructive Inspection
 NEC National Electric Code
 NFC National Fire Code
 NFPA National Fire Protection Association
 NIOSH National Institute for Occupational Safety and
 Health
 NPDEZ National Pollution Discharge Elimination System
 NRC Nuclear Regulatory Commission
 OJT On-the-job Training
 OSHA Occupational Safety & Health Administration
 RAMP Radon Assessment & Mitigation Program
 RAP Radiation Assistance Program
 RCRA Resource Conservation and Recovery Act

Appendix A

RF Radio Frequency
RTECS Registry of Toxic Effects of Chemical Substances
STEL Short Term Exposure Level
TLV Threshold Limit Value
TOMES PLUS Toxicology, Occupational Medicine and Environmental Series (Call AL/OEM, Brooks AFB, TX DSN: 240-2063)
T.R. Technical Report (Armstrong Laboratory, Occupational and Environmental Health Directorate, formerly AFOEHL).
USAFSAM United States Air Force School of Aerospace Med., Brooks AFB, Texas
VDT Video Display Terminal
VOL Volume

* To order EPA publications, write to: ORD Publications, P.O. Box 12505, Cincinnati, Ohio 45212

Appendix A

APPENDIX B
CONVERSION FACTORS

Appendix B

**APPENDIX B
CONVERSION FACTORS**

Alphabetical listing

CONVERT FROM	TO	MULTIPLY BY
ACRE	METER ²	4.046856×10^3
ACRE	FEET ²	43,560 X FEET
ACRE-FEET	METER ³	1.23348×10^3
ACRE-FEET	GALLONS	3.259×10^5
ANGSTROM	METER	1×10^{-10}
ATMOSPHERE	NEWTON/METER ²	101325
ATMOSPHERE	CM OF HG	76
ATMOSPHERE	INCHES OF HG	29.92
ATMOSPHERE	FEET OF H ₂ O	33.9
ATMOSPHERE	INCHES OH H ₂ O	407.3
ATMOSPHERE	LBS/INCH ²	14.7
ATMOSPHERE	MM HG	760
BAR	NEWTON/METER ²	1×10^{-5}
BECQUERELS	CURIES	2.7027×10^{-11}
BECQUERELS	PICOCURIES	27.027
BTU	GRAM-CALORIES	251.9957611
BTU	JOULES	1054.35
BTU/HR	WATTS	0.2929
BUSHEL	METER ³	0.03524
CALORIES	GRAM (MEAN BTU)	3.9470×10^{-3}
CELSIUS (TEMPERATURE)	KELVIN	$K=C+273.15$
CELSIUS	FAHRENHEIT	$(C \times 9/5) + 32$

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CONVERT FROM	TO	MULTIPLY BY
CENTIMETERS OF HG	FEET OF WATER	0.4461
CENTIMETERS OF HG	LBS/INCH ²	0.1934
CENTIMETERS OF HG	ATMOSPHERE	0.01316
CENTIMETERS OF HG (0 degrees C)	NEWTON/METER ²	1333.2
CENTIMETERS	INCHES	0.3937
CENTIMETER/SECOND	FEET/MIN	1.969
CENTIMETER/SECOND	MILES/HR	0.02237
COULOMBS	FARADAYS	1.036×10^{-5}
CUBIC CENTIMETERS	CUBIC FEET	3.531×10^{-5}
CUBIC CENTIMETERS	CUBIC METERS	10^{-6}
CUBIC CENTIMETERS	GALLONS	2.642×10^{-4}
CUBIC CENTIMETERS	LITERS	10^{-3}
CUBIC FEET	CUBIC METERS	0.02832
CUBIC FEET	GALLONS	7.48052
CUBIC FEET	LITERS	28.32
CUBIC FEET/SECOND	MILLION GALS/DAY	0.646317
CUBIC METER	CUBIC FEET	35.31
CUBIC METER	GALLON (US LIQ)	264.17
CUBIC METER	LITER	1000
CUP	METER ³	2.366×10^{-4}
CURIE	DISINTEGRATIONS/SEC	3.7×10^{10}
CURIE	DISINTEGRATIONS/MIN	2.22×10^8
DEGREE	GRADS	1.111111
DEGREE (ANGLE)	RADIAN	0.017745
DENIER (INTERNAT.)	KILOGRAM/METER	1×10^{-7}

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CONVERT FROM	TO	MULTIPLY BY
DYNE	NEWTON	1×10^{-5}
ELECTRON VOLT	JOULE	1.602×10^{-19}
ERG	BTU	9.48451×10^{-11}
ERG	JOULE	1×10^{-7}
ERG	MeV	6.24×10^5
FAHRENHEIT (TEMPERATURE)	CELSIUS	$C = (5/9)(F - 32)$
FAHRENHEIT (TEMPERATURE)	KELVIN	$K = (5/9)(F + 459.67)$
FATHOM	METER	1.8288
FEET	CENTIMETERS	30.48
FEET	METERS	0.3048
FEET/MIN	CENTIMETERS/SEC	0.508
FERMI	METER	1×10^{-15}
FLUID OUNCE (US)	METER ³	2.957×10^{-5}
FOOT	METER	0.3048
FOOT ³	GALLON	7.481
FOOT ³	METER ³	2.83168×10^{-2}
FOOT ³ /SECOND	METER ³ /SECOND	4.72×10^{-4}
FOOT OF WATER (39.2 degree F)	NEWTON/METER ²	2988.98
FOOTCANDLE	LUMEN/METER ²	10.764
FURLONG	METER	201.17
GALLON (BRITISH)	METER ³	0.0045461
GALLON (US DRY)	METER ³	0.00440488
GALLON (US LIQUID)	METER ³	0.003785
GALLON	LITER	3.785411784

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CONVERT FROM	TO	MULTIPLY BY
GRAD	DEGREE (ANGULAR)	0.9
GRAD	RADIAN	1.019708
GRAIN	KILOGRAM	6.4799×10^{-5}
GRAM	KILOGRAM	1×10^{-3}
INCH	METER	0.0254
INCH ²	METER ²	6.4516×10^{-4}
INCH ³	METER ³	$1/63871 \times 10^{-5}$
INCH OF MERCURY (32 ⁰ F)	NEWTON/METER ²	3.386×10^3
INCH OF MERCURY (60 ⁰ F)	NEWTON/METER ²	3.377×10^3
INCH OF WATER (39.2 ⁰ F)	NEWTON/METER ²	2.491×10^2
INCH OF WATER (60 ⁰ F)	NEWTON/METER ²	2.488×10^2
KILOMETER/HOUR	METER/SECOND	0.277778
KNOTS (INTERNATIONAL)	METER/SECOND	0.51444
LB M (POUND MASS, AVOIRDUPOIS)	KILOGRAM	0.45359
LB _f /FOOT ²	TON/METER ²	47.880258
LB _f /INCH ² (psi)	NEWTON/METER ²	6.8948×10^3
LIGHT YEAR	METER	9.46055×10^{15}
LITER	METER ³	1×10^{-3}
LITER	CUBIC FEET	0.03531
LITER	CUBIC INCHES	61.02
LITER	PINTS	2.11331
LITER	QUARTS (LIQUID)	1.057
METER	FEET	3.281

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CONVERT FROM	TO	MULTIPLY BY
METER	INCHES	39.37
MICRON	METER (LIQUID)	1×10^{-6}
MILE (US STATUTE)	METER	1.60934×10^3
MILE (BRITISH NAUTICAL)	METER	1.8532×10^3
MILE (INT'L NAUTICAL)	METER	1.852×10^3
MILE ² (US STATUTE)	METER ²	2.58999×10^6
MILE/HOUR	METER/SECOND	0.44704
MILE/MINUTE	METER/SECOND	26.8224
MILLIBAR	NEWTON/METER ²	1×10^2
MILLIGRAM/M ³	PPM	$\frac{\text{MG/M}^3}{\text{MW}} \times 24.45$
MILLIMETER OF MERCURY (0°C)	NEWTON/METER ²	1.3332×10^2
NAUTICAL MILE (US)	METER	1.852×10^3
OUNCE MASS (AVOIRDUPOIS)	KILOGRAM	2.8350×10^{-2}
OUNCE MASS (TROY OR APOTHECARY)	KILOGRAM	3.1103×10^{-2}
OUNCE (US FLUID)	METER ³	2.95735×10^{-5}
OUNCE	LITER	0.0295735
PINT (US DRY)	METER ³	5.50610×10^{-4}
PINT (US LIQUID)	METER	4.73176×10^{-4}
POUND MASS, LBM (AVOIRDUPOIS)	KILOGRAM	4.5359×10^{-1}
POUND MASS, LBM (TROY OR APOTHECARY)	KILOGRAM	3.7324×10^{-1}
PPM	MG/m ³	$\frac{\text{PPM (MW)}}{24.45}$

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CONVERT FROM TO MULTIPLY BY

$$\text{PPM @ } 25^{\circ}\text{C} = \frac{3.268 \times 10^9 (\text{GAL LIQ}) (\text{SP GR})}{\text{mw} \times (\text{CU FT OF SPACE})}$$

$$\text{PPM} = (\text{v})(\text{p}) \frac{\frac{22.4}{\text{MW}} \frac{\text{T}}{273} \frac{760}{\text{p}}}{\text{V}}$$

v = VOLUME IN ML

p = DENSITY IN GRAMS PER ML

V = VOLUME OF AIR OR CHAMBER

PSI (LB _f /INCH ²)	NEWTON/METER ²	1.3332 X 10 ²
QUART (US DRY)	METER ³	1.10122 X 10 ⁻³
QUART (US LIQUID)	METER ³	9.4635 X 10 ⁻⁴
RAD (RADIATION ABSORBED DOSE)	JOULE/KILOGRAM	0.01
RANKINE	KELVIN	K=(5/9)R
ROD	METER	5.0292
ROENTGEN	COULOMB/KILOGRAM	2.5798 X 10 ⁻⁴
STATUTE MILE	METER	1.6093 X 10 ³
TABLESPOON	METER ³	1.478676 X 10 ⁻⁵
TEASPOON	METER ³	4.928922 X 10 ⁻⁶
TON (METRIC)	KILOGRAM	1 X 10 ³
TON (NUCLEAR EQUIVALENT OF TNT)	KILOGRAM	4.20 X 10 ⁹
TON (SHORT, 2000 LB)	KILOGRAM	9.07185 X 10 ²
TORR (O ⁰ C)	NEWTON/METER ²	1.3332 X 10 ²
YARD	METER	0.9144
YARD ²	METER ²	0.83613
YARD ³	METER ³	7.6455486 X 10 ⁻¹
YEAR (CALENDAR)	SECOND (MEAN SOLAR)	3.1536 X 10 ⁷
YEAR (SIDEREAL)	SECOND (MEAN SOLAR)	3.1558150 X 10 ⁷
YEAR (TROPICAL)	SECOND (MEAN SOLAR)	3.1556926 X 10 ⁷

Appendix B

APPENDIX C
TECHNICAL ORDER LISTING FOR MEDICAL READINESS

Appendix C

APPENDIX C

Technical Order Listing for Medical Readiness

MEDICAL READINESS

Broken Arrow Guidance

- T.R. 83-115 A Broken Arrow Guide for Base
Bioenvironmental Engineers
- T.R. 84-001 Broken Arrow Checklist for
Bioenvironmental Engineers

Chemical, Biological Material

- T.O. 11C15-1-3 Chemical, Biological and Etiological Material

Detection/Decontamination Procedures and Equipment

- T.O. 11C15-1-3 Chemical Warfare Decontamination, Detection
and Disposal of Decontaminating Agents
- T.O. 11D1-1-101
Decontaminating and Reimpregnating Kit,
Individual, M13
- T.O. 11D1-1-111
Decontaminating Kit, Skin; Personal M-258A
- T.O. 11D1-3-8-1
Decontaminating Apparatus, Power Driven,
Portable, Type A/E 32U-8, Part Number
26000-100, -101, -102 (Engineered Air)
- T.O. 11D2-3-3-1
Impregnating Set, Clothing, Field, M3, AND
Testing Kit, Impregnate-in-clothing, M2
- T.O. 11H2-1-101
Marking Contaminated or Dangerous Areas
- T.O. 11H2-14-5-1
Paper, Chemical Agent, VGH ABC-M8 and Tape
Chemical Agent Detector, M9
- T.O. 11H2-17-1 Operator's and Unit Maintenance Manual for
M8A1 Automatic Chemical Agent Alarm (NSN:
6665-01-105-5623)
- T.O. 11H2-17-2 Direct Support Maintenance Instructions
(RPSTL)-M8A1 Automatic Chemical Agent
Alarm, NSN: 6665-01-105-5623 and Auxillary
Equipment
- T.O. 11H2-21-1 Operator's Manual - Chemical Agent Detector
Kit, Model M256 and M256A1
- T.O. 11H2-6-1 Detector Kit, Chemical Agent, Model ABC-M18A2
- T.O. 11H2-6-1 Detector Kit, Chemical Agent, Model AN-M15A2A
- T.O. 11H2-7-1 Water Testing Kit, Chemical Agents, AN-M2
and Refill Kit ABC-MC0A1
- T.O. 11H2-8-1 Alarm Set, Chemical Agent, Auto Alarm, A/E23D-3
- T.O. 11H4-2-12-1
Radiac Detector Charger, CDV-750
- T.O. 11H4-2-15-1
AN/PDR 56G
- T.O. 11H4-2-31 Radiac Set PAC-1S-1, Operation

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T.O. 11H4-6-1-1
 IO Chamber Dosimeters
 T.O. 11H4-7-3-121
 Radiac Set AN PDR-27G and AN PDR-27GZ
 T.O. 11H4-7-3-131
 Radiac Set AN/PDR-43A, AN/PDR-43B and
 AN/PDR-43D
 T.O. 11H4-7-3-171
 Radiac Set AN/PDR-43E
 T.O. 11H4-7-3-201
 Radiac Set AN/PDR-27T - Operations,
 Maintenance and Overhaul ^W/Parts Breakdown
 T.O. 11H4-2-14-1
 Radiac Set AN/PDR-43E, Operation, Maintenance,
 Overhaul Instructions ^W/Parts Breakdown
 T.O. 00-110A-12
 Operational Instructions, Anti-contamination
 Ensemble
 T.O. 11H4-7-3-211
 Radiac Set AN/PDR-56F
 T.O. 11H4-7-7-1
 Air Transportable Radiac Package (ATRAP)
 T.O. 11H4-7-8-1
 Instruction Manual, Gamma Survey Meter
 Model 592B
 T.O. 11H4-7-9-1
 Instruction Manual For Model 440, Low
 Energy Survey Meter
 T.O. 11H4-8-4-1
 Utilization and Maintenance of Plutonium
 239 Test Sample Sets, FSN 6665-767-7497
 T.O. 11H4-8-5-1
 Utilization and Maintenance of Cesium 137
 Test Samples

Personal Protective Equipment

T.O. 14P3-1-141
 Ground Crew Chemical Defense Ensemble
 T.O. 14P3-1-7
 Toxicological Protective Suit, Type M-3,
 M Apron
 T.O. 14P4-1-151
 Chemical Biological Canisters and Filter
 Element Procedures and Serviceability Lists
 T.O. 14P4-15-1
 Chemical Biological Mask Type MCU-2/P
 T.O. 14P4-3-31
 Mask, Protective Special Purpose, M9A1
 T.O. 14P4-9-31
 Masks, Protective Field M17, M17A1, and
 M17A2 and Accessories

Riot Control Agents

T.O. 11C5-3-7
 Riot Control Agents CS-1 and CS-2
 T.O. 11C5-5-2-7
 Riot Control CN, M2 Pellets and CS Capsules

Appendix C

APPENDIX D

**References on
Reproductive Hazards in the
Occupational Environment**

Appendix D

APPENDIX D

References on Reproductive Hazards in the Occupational Environment

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List compiled by the United States Air Force School of Aerospace Medicine Military Public Health Branch, Brooks AFB, TX 78235-5000
DSN: 240-2058 or 2059

Appendix D

APPENDIX E
QUICK REFERENCE
T.O. INVENTORY
FOR AEROSPACE MEDICINE

Appendix E

APPENDIX E**QUICK REFERENCE
T.O. INVENTORY
FOR AEROSPACE MEDICINE**

T.O. Number	Subject	Date of Issue
00-5-	AF T.O. System	1 Jul 89
00-5-2	T.O. Distribution System	15 Aug 87
00-20-1	Preventive Maintenance Program - General Policy Requirements and Procedures	1 May 88
00-20B-5	USAF Motor Vehicle and Vehicular Equipment Inspection	7 Apr 88
00-25-172	Ground Servicing of Aircraft and Static Grounding/Bonding	1 Feb 87
00-25-203	Contamination Control of Aerospace Facilities, U.S. Air Force	1 Dec 72
00-25-235	Safety Procedures and Equipment for Confined Space Entry (Including Missile Propellant Tanks)	25 Jan 74
00-25-237	Procedures for Identifying and Justifying Base Requirements for Aircraft Turbine Engine Ground Run-up Noise Suppressors	30 Sep 83
00-25-238	Base Level Maintenance and Calibration of All Jet Engine Test Stands/Cells and Demountable Noise Suppressor Systems	30 Aug 71
00-25-251	Installation, Operation, Maintenance, Care, and Handling Instructions, General for Microwave Tubes, Magnetron Tubes, and Electron Tubes	1 Oct 79
00-85-37	Foam-In-Place Packaging	15 Oct 86
00-85A-03-1	Preservation, Packaging and Packing External Aircraft Fuel Tanks/Cells	15 May 89
00-110A-1	Guidelines for Identification and Handling of Aircraft and Materiel Contaminated with Radioactive Debris (Fallout)	15 Apr 86
00-110A-12	Operational Instructions, Anti-Contamination Ensemble	1 Apr 89

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00-110N-2	Radioactive Waste Disposal	22 Jun 88
00-110N-3	Requisition, Handling, Storage, and Identification of Radioactive Material	15 Aug 86
00-110N-4	Acquisition, Use, Storage, and Disposition of Nuclear Source Material	31 May 85
00-110N-7	Handling and Disposition of Radioactive Electron Tubes and Spark Gaps	1 Jan 90
00-110N-10	Requisitioning, Use, and Disposition of Lensatic Compass NSN 6605-00-846-7618YS	15 Feb 81
00-110N-11	Handling, Storage, and Disposal of Krypton 85 Radioactive Source	15 Aug 84
00-110N-12	Requisitioning, Use, Storage, and Disposition of Submersible Wrist Compass	15 Mar 82
00-110N-13	Requisitioning, Use and Disposition of Night Vision Adaptometer	1 Mar 86
00-110N-14	Radioactive Test Sample, Krypton 85, Gamma, MX7338/PDR-27R	1 Dec 75
00-110N-15	Requisition, Use and Disposition of Lensatic Compass NSN 6605-00-151-5337YS	1 Sep 80
1-1-3	Inspection and Repair of Aircraft Integral Tanks and Fuel Cells	24 Aug 89
1-1-8	Application of Organic Coatings, Aerospace Equipment	1 Sep 89
1-1-691	Aircraft Weapons Systems Cleaning and Corrosion Control	1 Jul 88
8D2-3-1	Aircraft Nickel Cadmium Storage Batteries	30 Sep 85
11C5-5-2-7	Riot Control CN, M2 Pellets and CS Capsules	31 Jan 78
11C5-5-3-7	Riot Control Agents CS-1 and CS-2	1 May 74
11C15-1-2	Chemical, Biological, and Etiological Material	9 Feb 68
11C15-1-3	Chemical Warfare Decontamination, Detection and Disposal of Decontaminating Agents	19 Apr 82

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11D1-1-101	Decontaminating and Reimpregnating Kit Individual, M13	18 Aug 78
11D1-1-111	Decontaminating Kit, Skin; Personal M-258A1	29 Sep 89
11D1-3-6-1	Decontaminating Apparatus, Portable, DS2, 1-1/2 Quart, ABC-M11	28 Mar 69
11D1-3-8-1	Decontaminating Apparatus, Power Driven, Portable, Type A/E 32U-8, Part Number 26000-100, -101, -102 (Engineered Air)	15 Dec 89
11D2-3-3-1	Impregnating Set, Clothing, Field, M3, and Testing Kit, Impregnate-in-Clothing,M2	18 Jun 85
11H2-1-101	Marking Contaminated or Dangerous Areas	1 Mar 81
11H2-5-1	Detector Kit, Chemical Agent, Model ABC-M18A2	2 May 77
11H2-6-1	Detector Kit, Chemical Agent, Model AN-M15A2A	15 Apr 68
11H2-7-1	Water Testing Kit, Chemical Agents, AN-M2 and Refill Kit ABC-M30A1	1 Apr 72
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11H2-14-5-1	Paper, Chemical Agent, VGH ABC-M8 and Tape, Chemical Agent Detector, M9	15 Jul 85
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11H2-21-1	Operator's Manual - Chemical Agent Detector Kit, Model M256 and M256A1	1 Sep 85
11H4-2-12-1	RADIAC Detector Charger, CDV-750	30 Aug 68
11H4-2-14-1	RADIAC Set AN/PDR-43E, Operation, Maintenance, Overhaul Instructions with Parts Breakdown	8 Aug 77
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