

**CHAPTER I**  
**CLEAN AIR ACT (CAA) REQUIREMENTS**

**N45 CONTACT:**

Kathy Ellis (N457C)  
(703) 602-2568

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# POM-02 NAVY ENVIRONMENTAL REQUIREMENTS GUIDEBOOK

## CHAPTER I: OVERVIEW OF CLEAN AIR ACT (CAA) REQUIREMENTS

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### A. OVERVIEW

0.1 General: The Clean Air Act Amendments of 1990 (CAAA 90) contain eleven Titles. The key CAAA 90 Titles are discussed in this chapter. The table below identifies the Titles within each piece of legislation.

Title I:	Attainment and Maintenance of National Ambient Air Quality Standards (NAAQS)
Title II:	Mobile Sources
Title III:	Hazardous Air Pollutants
Title IV:	Acid Deposition Control
Title V:	Permits
Title VI:	Stratospheric Ozone Protection
Title VII:	Enforcement
Title VIII through Title XI are:	Miscellaneous, Clean Air Research, Disadvantaged Business Concerns, and Clean Air Employment Transition Assistance.

### 1. Title I: Provisions for Attainment and Maintenance of National Ambient Air Quality Standards (NAAQS)

1.1 General: Facilities applying for an operating permit (under Title V) will be affected by whether an activity is in an attainment or nonattainment area for any of the following criteria pollutants: ozone [volatile organic compound (VOC) and nitrogen oxide (NO<sub>x</sub>) emissions], carbon monoxide (CO), or particulate matter (PM-10, PM-2.5); and in some cases, nitrous dioxide (NO<sub>2</sub>), sulfur oxides (SO<sub>x</sub>), and lead (Pb). Nonattainment areas are classified by degree for the specific pollutant of concern and are published in 40 Code of Federal Regulations (CFR) 81, Subpart C, and updated as needed in the Federal Register. State Implementation Plans (SIPs) must be prepared by the state to specify how the state will move from nonattainment to attainment status within a schedule prescribed by CAAA 90.

1.2 State Implementation Plans (SIPs): Each Navy facility will have response requirements dependent upon their area's attainment classification for each criteria pollutant and the facility's designation as a "major stationary source" for that classification.

1.3 Emission Statements: For ozone nonattainment areas, states require a yearly certified emission statement from each stationary source addressing the actual emissions of VOCs and NO<sub>x</sub>. This requirement became effective on 15 November 1993 under CAAA 90 §182(a)(3)(B).

1.4 Emission Offsets: Ozone nonattainment area sources must comply with the SIP requirements to reduce or offset new VOC emissions by a specific offset ratio depending on their nonattainment classification. If emission reduction credit (ERC) programs are established by the state, offset requirements can be met with ERCs banked by the source or by other sources within the same nonattainment area. See CAAA 90 §173 and §182.

1.5 Conformity Determination: Section 176(c) of the CAA prohibits Federal agencies from engaging in, supporting, providing financial assistance for, licensing, permitting, or approving any activity that does not conform to an applicable SIP or FIP. EPA issued criteria and procedures for determining conformity is found in 40 CFR Parts 51 and 93. Federal agencies must perform an applicability analysis to establish if a conformity determination is required for a Federal action before proceeding with the action. Navy conformity determinations are typically done as part of the National Environmental Policy Act (NEPA) analysis and documentation procedures for the planned action. See [Chapter XIII](#) for Guidebook Items related to NEPA requirements.

1.6 New Source Review Program: The CAA requires preconstruction permits for new or modified sources of air pollution. The program is called Prevention of Significant Deterioration (PSD/NSR) in attainment areas and Nonattainment Area (NAA) review in nonattainment areas. NSR targets major sources that make physical or operational changes to the facility which significantly increase the potential to emit. These sources are required to obtain a pre-construction permit, analyze impacts on the air quality, apply control technologies, and possibly obtain emission offsets. The significant thresholds vary by pollutant.

## **2. Title II: Provisions Related to Mobile Sources**

2.1 Centrally Fueled Fleets: Owners and operators of centrally fueled fleets of 10 or more covered vehicles are required to include a minimum number of clean-fuel vehicles in their new vehicle purchases if they are located in: (i) a nonattainment area classified as serious or above in ozone or as serious in CO, and (ii) an area with a 1980 Census population of 250,000 or more. Beginning with model year 1998, 30% of new light-duty fleet vehicle acquisitions must be clean-fuel vehicles; in model year 1999 that percentage increases to 50%, while after the year 2000, it must equal at least 70%. See CAAA 90 §246 and 58 FR 32474 (10 June 93).

2.2 Clean-Fuel Fleet Programs: Vehicle fleets located in ozone nonattainment areas classified as serious, severe, or extreme, and CO nonattainment areas above 16 parts per million (ppm) with a 1980 population of 250,000 or more, must comply with the SIP clean-fuel fleet program. The states were scheduled to submit their SIPs for EPA approval by May 1995. See CAAA 90 §246(a).

2.3 Clean-Fuel Vehicles: Section 246(b) of the CAA requires that at least a specified percentage of all new covered fleet vehicles in model year 1998 and thereafter purchased in each covered area shall be clean-fuel vehicles and shall use clean alternative fuel. Section 246(e) mandates that any Federal facility which dispenses clean alternative fuels to Federal fleet vehicles shall offer this fuel for sale to the public during reasonable business hours.

2.4 Motor Vehicle Inspection and Maintenance (I/M): This requires all road vehicles (including government owned/leased fleet vehicles and vehicles operated by civilian, military and contractor personnel, but excluding military tactical vehicles) comply with the SIP's I/M program in certain ozone and CO nonattainment areas.

### **3. Title III: Hazardous Air Pollutants**

3.1 General: Title III of CAAA 90 established a new regulatory program to reduce emissions of hazardous air pollutants (HAPs). This program is found in CAA Section 112 and requires EPA to issue technology-based, National Emission Standards for Hazardous Air Pollutants (NESHAP) for major sources and area sources that emit significant quantities of 189 listed HAPs. A facility must conduct an inventory of its potential HAP emissions to determine its status as a "major" source of HAPs.

A major source is *"any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants."* To determine if a military installation (group of stationary sources in a contiguous area) is a major HAP source, it is necessary to add up the HAP emissions from all the stationary sources on the facility. An area source is *"any stationary source of hazardous air pollutants that is not a major source."* For purposes of this section, the term "area source" does not include motor vehicles or non-road vehicles subject to regulation under Title II.

The NESHAP regulations are source specific and not pollutant-specific. For example, there will not be a "Methylene Chloride NESHAP"; instead, methylene chloride emissions will be regulated in source-specific NESHAPs for Aerospace Manufacturing and Rework Facilities, etc.

3.2 Phase I HAP Controls, MACT Standards: Section 112 established a two-phase program for control of HAPs. In the first phase, the EPA must issue technology-based emission standards (known as maximum achievable control technology or MACT) for each source category of all major sources and some area sources of the listed HAPs. Typically, EPA will establish an emission standard based on a certain technology. However, source owners may use any technology they want as long as the emission standard is met. Facilities can also implement pollution prevention alternatives as a compliance measure and eliminate the need for the affected source.

3.3 Phase II HAP Controls, Residual Risk: In the second phase of the HAP control program, the EPA must assess the remaining risk to public health after implementation of the MACT standards. If the residual risk is too high, EPA must issue additional standards to protect the public health with an ample margin of safety.

3.4 Accidental Releases: Section 112(r) requires facilities that have certain hazardous substances in amounts exceeding the established thresholds quantities to prepare (and update as necessary) a risk management plan (RMP). The purpose of the RMP is to document the existence of a compliant risk management program.

### **4. Title IV: Acid Deposition Control**

4.1 General: Title IV is designed to control the emissions of sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>). The program primarily focuses on emissions from fossil fuel burning electric utilities, though other generators and industrial sources are subject to its provisions. The SO<sub>2</sub> program is based on emission allowances which can be bought and sold on the open market.

## **5. Title V: Permits**

5.1 General: The CAAA 90 requires a facility wide operating permit for sources of air pollution. At a minimum, the permit must contain all applicable Federal requirements for stationary sources that apply to the facility. Each Navy activity should have prepared an Air Emission Inventory (AEI) to identify all stationary sources of air pollution on the facility. The AEI should be continuously updated to incorporate operational changes or new mission units. The permit may need to be modified to address the changes in the AEI or to add newly applicable regulations. The facility will need to reapply for a permit in 3-5 years. Permit fees will be assessed on the annual emissions from the facility. The facility must semi-annually certify compliance with the permit terms.

5.2 Major Stationary Sources: Major Stationary Sources are required to have a Title V Permit. Major stationary sources are defined in the CAAA as any stationary source or facility that directly emits, or has the potential to emit, 100 tons per year or more of any air pollutant. In certain nonattainment areas, lower threshold values have been established as criteria for qualification as a major stationary source (e.g., 10, 25, or 50 tons per year)

5.3 State Permits to Construct and Operate and Other Alternatives: Permits to construct and operate may still be required even though a facility may not qualify as a major stationary source. A source may choose to limit its potential to emit to below the threshold levels that trigger the requirement to obtain a Title V permit. Referred to as "synthetic minors," certain sources may obtain a state permit in lieu of a Title V permit.

## **6. Title VI: Stratospheric Ozone Protection**

6.1 General: Title VI, while a component of the CAAA 90, was presented separately in Chapter XI of the Environmental Requirements Guidebook, entitled Ozone Depleting Substances (ODSs). CNO (N-45) completely removed Chapter XI from the POM-02 Environmental Requirements Guidebook. In accordance with OPNAVINST 5090, CH-1, Navy installations should have completed their ODS conversions by the year 2000. Any conversion after 2000 will have to be done as part of the normal life cycle repair/replace. The only "environmental issue" is training needed to certify air conditioning and refrigeration technicians. A separate chapter is not needed for a single training project. Training required under Title VI for ODS substances can be requested using Guidebook Item [01940](#) - "Training (Required under CAA Statute)".

## **7. Title VII: Enforcement**

7.1 General: Title VII contains the enforcement provisions and provides a rigid framework for enforcement policy. The EPA and state have enforcement authority for most CAAA 90 violations. Methods of enforcement include compliance orders, field citations, administrative assessment of civil penalties, civil judicial enforcement, and criminal enforcement. See CAAA 90 §701-711, 40 CFR 113 or OPNAVINST 5090.1B CH-1, paragraph 5-4.2.2, for more details.

## **B. GUIDEBOOK ITEMS**

1. **Item Grouping:** To facilitate the identification of applicable Items to the specific need of the reader, the Items contained in this chapter have been grouped into Sub-Program Areas. The listing of Clean Air Act Sub-Program Areas is located on page I-6.

2. **Project Justification:** For the EPR submission, provide specific details of the Federal, state, and local regulations that apply and specific information such as a building number, equipment identification number, size, etc., as opposed to simply restating the generic information contained in the Guidebook Items. Provide this information in the “Narrative” field of the EPR in accordance with [Appendix D](#) of the Guidebook.

3. **Asbestos:** Although asbestos is regulated as a HAP under §112 of the CAA, most actions required to comply with asbestos regulations are triggered by mitigation requirements of occupational hazards and therefore should be funded by local funds or by the CNO’s Hazard Abatement Program. For CAA requirements related to asbestos removal use Guidebook’s Items. 01940 through 01999. As indicated in [paragraph B.2.a of Chapter 0](#), non-recurring requirements which are due during the budget years, i.e., Class I requirements in FY 2000, or will be Class I in FY 2001, must be funded in the budget process, not in POM-02. (A

4. **Clean-Fuel Vehicles (or Alternate Fuel Vehicles) and Related Infrastructure:** Although clean-fuel vehicles are regulated under §§241 through 250 of the CAA, procurement actions required to comply with clean-fuel vehicles regulations are considered by CNO as part of the Navy’s normal vehicle program (similar to normal vehicles air pollution control requirements, e.g., catalytic converters, unleaded gasoline) and therefore should not be funded with environmental funds. Accordingly, EPR submissions using Guidebook’s Items 01940 through 01999 for clean-fuel vehicles or alternate fuel vehicles and related infrastructure are not acceptable.

5. **Conformity Determinations:** Although conformity determinations are regulated under §123(c) of the CAA, actions required to prepare conformity determinations are considered part of the documentation required under NEPA and, therefore, are not covered by this chapter but under [Chapter XIII](#) of the Guidebook. Accordingly, EPR submissions using Guidebook Items 01940 through 01999 for conformity determinations are not acceptable. For EPR submissions for Conformity Applicability Determinations not associated with a NEPA action, use Guidebook Item [01999](#), Miscellaneous Requirements. (In project justification, indicate that this is not a NEPA related action.)

## CHAPTER 1 - CLEAN AIR ACT REQUIREMENTS

### SUB-PROGRAM AREAS

#### I. Emission Control/Prevention

- 01001 Boilers, Install NO<sub>x</sub> Emission Controls
- 01003 Sterilizers, Install Control Equipment for Ethylene Oxide Emissions from Sterilization and Fumigation Operations
- 01005 Paint Spray Booths, Install VOC and/or PM<sub>10</sub> Emission Controls
- 01011 Various Sources, Install Controls to Reduce Particulate Emissions
- 01017 Industrial Ovens, Install Emission Controls
- 01019 Incinerator, Install Scrubber and Baghouse
- 01022 Solvent Cleaning Operations, Install VOC and HAP Emission Controls
- 01026 Electroplating and/or Anodizing Operations, Install Emission Controls
- 01026M Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions
- 01027 Various Sources, Install Charcoal Adsorption
- 01028 Dispensing Facilities, Retrofit Aboveground tanks with Secondary Seals
- 01030 Boilers, Convert Diesel/Oil Fired Boilers to Clean Fuels (such as Natural Gas)
- 01031 Fuel Storage/Dispensing Facilities, Install Stage I and/or Stage II Vapor Recovery System for Underground/Aboveground Storage Tanks
- 01056 Medical Waste Incinerator, Install Control Equipment

#### II. Emissions Monitoring and Source Testing

- 01032 Install Continuous Monitoring Systems
- 01036 Source Emission Testing

#### III. Permits and Fees

- 01037 New Source Review Permit
- 01047 Title V Permit
- 01980 Program Fees
- 01981 Annual Operating Permit/Emissions Fees

## CHAPTER 1 - CLEAN AIR ACT REQUIREMENTS

### SUB-PROGRAM AREAS

(Continued)

#### IV. Inventories and Plans

- 01006 California AB2588 Program Requirements: Update Air Toxics Emissions Inventory Reports (ATEIR), Health Risk Assessments (HRA), Public Notification Plan (PNP), Risk Reduction Audit and Plan (RRAP), Air Toxics “Hot Spots” Program Annual Fees
- 01033 Prepare/Update Air Emissions Inventories for Criteria and/or Hazardous Air Pollutants
- 01038 Annual Emission Statements
- 01040 Prepare/Update Title III 112(r) Regulated Substances Inventory/Risk Management Plan
- 01051 Emission Reduction Credit Plan
- 01053 Work Trip Reduction Plans

#### V. Training

- 01940 Training
- 1949 Travel Related to 01940

#### VI. NESHAP/MACT Standards

- 01057 Determine MACT for Planned Construction and Reconstruction of Major HAP Sources
- 01058 NESHAP Compliance

#### VII. Other

- 01950 Specific State Requirements
- 01960 Specific Local Requirements
- 01970 Specific Overseas Requirements
- 01999 Miscellaneous Requirements

**Guidebook #:** 01001

**Project Name:** Boilers, Install NO<sub>x</sub> Emission Controls (R)

**Pollutant:** NO<sub>x</sub>

**Requirement:** NO<sub>x</sub> emission controls on boilers may be required for some Ozone and NO<sub>2</sub> nonattainment areas only. Check state and/or local regulations. Most common method of control is installation of low NO<sub>x</sub> burners. Installation of such burners commonly results in increased maintenance and fuel costs. (A)

*EPR Data Entries*

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**Project Name:** Install NO<sub>x</sub> Emission Controls on Boilers (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** NAQP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01001 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3, or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information. )

**Guidebook #:** 01001 (Continued)

**Project Name:** Boilers, Install NO<sub>x</sub> Emission Controls

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current (Design/Construction)

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Use of low NO<sub>x</sub> burners retrofits assumed:

<b>Boiler Size</b>	<b>Retrofit Cost Per Boiler</b>
Small (5-15 MM BTU/hr)	\$25,000 - \$50,000
Medium (15-40 MM BTU/hr)	\$50,000 - \$200,000
Large (40-60 MM BTU/hr)	\$200,000 - \$400,000

<b>Guidebook #:</b>	<b>01003</b>	
<b>Project Name:</b>	<b>Sterilizers, Install Control Equipment for Ethylene Oxide Emissions from Sterilization and Fumigation Operations</b>	<b>(R)</b>
<b>Pollutant:</b>	<b>HAPs</b>	
<b>Requirement:</b>	<p>40 CFR 63 Subpart O requires control of ethylene oxide (EtO) emissions from commercial sterilization and fumigation operations that use 1 ton per year or more of EtO. Subpart O affects EtO sources at medical equipment suppliers, pharmaceuticals, other health related industries, spice manufacturers, large libraries, large museums and archives, and contract sterilizers. The following sterilization sources are exempt: beehive fumigators; research and laboratory facilities; and medical facilities whose primary purposes are to provide medical services to humans or animals. Medical facility units are presently exempt. However EPA's Draft Urban Area Toxics Strategy shows they intend to regulate medical units with potential compliance date sometime in 2005.</p> <p>Some states regulate smaller sterilization units as well as units located at hospitals and medical clinics. For example, see California SCAQMD Rule 1405.</p> <p><b>Process Description:</b> Ethylene oxide sterilization or fumigation is typically performed at industrial/commercial facilities and hospitals in sealed, airtight chambers. EtO is used as a sterilant for heat and moisture sensitive materials and as a fumigant to control microorganisms or insects. Sterilizer units vary greatly in size: typically ranging from 2 to 1000 ft<sup>3</sup> capacity. Most units use either a mixture of 12/88 (%EtO/%Freon-12) or 100% pure EtO. In the 12/88 mixture, Freon is used as the carrier gas. Mixtures using CO<sub>2</sub> as the carrier gas are also becoming more common.</p> <p><b>Control Process:</b> The sterilizer chamber vent, chamber exhaust vent, and aeration room vent are sources of EtO emissions. EtO control equipment options include:</p> <p><u>Thermal Oxidation:</u> Applicable only to 100% EtO streams. The use of thermal oxidation will likely require additional safety procedures due to the explosivity of 100% EtO.</p> <p><u>Catalytic Oxidation:</u> Applicable to both 100% EtO and EtO/inert gas mixtures. Catalytic oxidation can achieve high EtO removal efficiencies over a wide range of inlet concentrations and has been used to control both sterilizer and aerator exhaust streams.</p> <p><u>Condensation/Reclamation:</u> Applicable to the recovery of both the EtO and inert gas streams. A facility utilizing this system may need complementary abatement equipment to achieve high control efficiencies. New units commonly employ this control method.</p>	<b>(A)</b>

**Guidebook #:** 01003 (Continued)

**Project Name:** Sterilizers, Install Control Equipment for Ethylene Oxide Emissions from Sterilization and Fumigation Operations

**Requirement (Continued):** ***P2 Alternatives:*** According to the Naval Environmental Health Center (NEHC), many medical facilities are replacing their EtO sterilizers with plasma sterilization units. Since plasma units do not satisfy all sterilization needs, these facilities arrange for a subcontractor to sterilize certain Items using EtO

*EPR Data Entries*

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**Project Name:** Sterilizers, Install Control Equipment for Ethylene Oxide Emissions from Sterilization and Fumigation Operations (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01003 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7(pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01003 (Continued)

**Project Name:** Sterilizers, Install Control Equipment for Ethylene Oxide Emissions from Sterilization and Fumigation Operations

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR).

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**Other Comments:** For information regarding medical sterilizer controls and alternatives contact the Naval Environmental Health Center, Bill Rogers, (757) 363-5546, DSN 864, E-mail: [rogersw@ehc40.med.navy.mil](mailto:rogersw@ehc40.med.navy.mil).

**Effective Date:** Federal: 40 CFR Part 63, Subpart O, 6 December 97 (59 FR 62585). State: Refer to applicable regulation. (Medical facility units are presently exempt. However, EPA’s Draft Urban Area Air Toxics Strategy shows they intend to regulate medical units with potential compliance date sometime in 2005). (A

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

***EtO Emission Control Equipment:***  
\$160,000 for a 6ft. x 4ft. x 4ft. unit.

**Guidebook #:** 01005  
**Project Name:** Paint Spray Booths, Install VOC and/or PM10 Emission Controls (R)  
**Pollutant:** VOC, PM

**Requirement:** CAA, Title 1, Part D, Title III, and SIP. Installation of VOC and PM10 emission control equipment (carbon adsorption unit, oxidizer, incinerator, etc. for VOC), (Water Curtain and Dry Filters , etc. for PM10), respectively at paint spray booths. Note: Baghouses are adequate control equipment for powder coating operations. The Aerospace NESHAP also requires controls on some spray booths as will future NESHAP regulations such as the Auto and Light Duty Truck NESHAP and the Miscellaneous Metal Parts and Products NESHAP. These rules will typically require particulate controls to capture inorganic HAP (PM) emissions. These rules do not typically require VOC or VOHAP controls because they typically emphasize the use of low VOC and low VOHAP coatings.

Control Process: Carbon adsorption and spray absorption systems capture and recover solvents from the air after it passes through the spray booth and ovens. In some cases recovered solvents can be reused or recycled. Incinerators destroy solvents by burning to form carbon dioxide and water. However, other gaseous pollutants may be created. Catalytic and thermal incinerators are often coupled with heat recovery units that help lower operating costs for baking ovens. Carbon filter concentration systems combine carbon adsorption to concentrate the VOC with incineration to destroy the VOC. (Note: in most cases facilities can comply with VOC limits by using compliant (low VOC) coatings.) Installation of Water Curtain and Dry Filters to reduce particulate emissions in powder coating or vaporized metal operation (typically Aluminum) using spray guns is adequate control equipment.

***P2 Alternatives:*** Note: Facilities should consider the following cost effective pollution prevention alternatives in lieu of emission controls when possible:

1. **High volume, low pressure (HVLP) paint spray systems** ([http://enviro.nfesc.navy.mil/p2library/4-03\\_896.html](http://enviro.nfesc.navy.mil/p2library/4-03_896.html)) can reduce the VOC and particulate emissions due to higher paint/coating transfer efficiencies.
2. A **dry filter paint booth conversion** ([http://enviro.nfesc.navy.mil/p2library/4-01\\_896.html](http://enviro.nfesc.navy.mil/p2library/4-01_896.html)) from a water curtain spray booth can reduce particulate emissions while eliminating the wastewater.

**Guidebook #:** 01005 (Continued)  
**Project Name:** Paint Spray Booths, VOC and/or PM10 Emission Controls  
**Requirements (Continued):**

3. **Plural component proportioning system** ([http://enviro.nfesc.navy.mil/p2library/4-04\\_896.html](http://enviro.nfesc.navy.mil/p2library/4-04_896.html)) for epoxy paints minimize the amount of paint used.
4. Powder coating painting system ([http://enviro.nfesc.navy.mil/p2library/4-05\\_896.html](http://enviro.nfesc.navy.mil/p2library/4-05_896.html)) eliminates VOCs, hazardous air pollutants, solvents, and produces a superior surface finish.
5. Low VOC coatings effectively reduce the VOC and particulate emissions. Examples of low VOC coatings on the Qualified Products List include MIL-C-85285 (alternate to MIL-C-22750 and MIL-C-83286), MIL-C-4168 Type IV (alternate to MIL-C-4618 Type II), and MIL-P-553022B Type II (alternate to MIL-P-23377).

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>) or specifically the **Painting** section (<http://enviro.nfesc.navy.mil/p2library/section4.html>) of the Joint Services Pollution Prevention Opportunity Handbook.

*EPR Data Entries*

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**Project Name:** Paint Spray Booths, VOC and/or PM10 Emission Controls (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01005 (field must be entered by user)  
**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 1,2,3, or 4 (pick field from EPR )  
**P2 Category:** D00 (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**Guidebook #:** 01005 (Continued)

**Project Name:** Paint Spray Booths, VOC and/or PM10 Emission Controls

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Guidebook #:**

**01005 (Continued)**

**Project Name:**

**Paint Spray Booths, Install VOC and/or PM10 Emission Controls on Paint Spray Booths**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

<b>Booth Size</b>	<b>Control Cost</b>
Small (3,200 cfm):	\$75,500 - \$100,000
Medium (10,000 cfm):	\$105,000 - \$150,000
Large (17,000 cfm):	\$175,000 - \$190,000

Costs shown are for emission controls, permit limits could be set by Navy personnel or contracted out depending on the size/complexity of the facility. Costs for permit studies are listed under separate projects (See [01037](#), New Source Review Permit Study).

**Guidebook #:** 01006  
**Project Name:** California AB2588 Program Requirements: Update Air Toxics Emissions Inventory Reports (ATEIR), Health Risk Assessment (HRA), Public Notification Plan (PNP), Risk Reduction Audit and Plan (RRAP), Air Toxics “Hot Spots” Program Annual Fees  
**Pollutant:** HAP  
**Requirement:** Note: Use this Item for California only. For other states with similar requirements use Guidebook Item [01950](#).

This is a requirement of California’s AB2588 which requires updates of: Air Toxics Emission Inventory Reports (ATEIRs), Health Risk Assessment (HRA); Public Notification Plan (PNP), Risk Reduction Audit and Plan, and Air Toxics “Hot Spots” Program Annual Fees. Other states might have similar programs in place.

Program Description: In California facilities must update and implement the approved emission inventory plan and submit a revised toxic emissions inventory report to the air district. ATEIRS are now required every four years. Another HRA may be required if a facility’s emissions continue to indicate the likelihood of a high risk. California’s AB2588 requires high risk facilities to notify the affected public of the risk posed by these facilities. Once an HRA is approved for a high risk facility, the HRA will be analyzed for development of a risk reduction plan. This report is state-specific; updates are required periodically depending on reporting phase in which a facility is classified. California’s AB2588 requires facilities which are subject to the requirements of the Air Toxics "Hot Spots" Information and Assessment Program to pay annual fees.

*EPR Data Entries*

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**Project Name:** California AB2588 Program Requirements: Update Air Toxics Emissions Inventory Reports (ATEIR), Health Risk Assessment (HRA), Public Notification Plan (PNP), Risk Reduction Audit and Plan (RRAP), Air Toxics “Hot Spots” Program Annual Fees (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** EINV (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Guidebook #:** 01006 (Continued)

**Project Name:** California AB2588 Program Requirements: Update Air Toxics Emissions Inventory Reports (ATEIR), Health Risk Assessment (HRA), Public Notification Plan (PNP), Risk Reduction Audit and Plan (RRAP), Air Toxics “Hot Spots” Program Annual Fees

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01006 (field must be entered by user)

**PPI#:** 6 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 9 (pick field from EPR )

**P2 Category:** A00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Guidebook #:**

**01006 (Continued)**

**Project Name:**

**California AB2588 Program Requirements: Update Air Toxics Emissions Inventory Reports (ATEIR), Health Risk Assessment (HRA), Public Notification Plan (PNP), Risk Reduction Audit and Plan (RRAP), Air Toxics “Hot Spots” Program Annual Fees**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

<b>Product</b>	<b>Facility Size/Type</b>	<b>Cost Per Facility</b>
<b>ATEIR</b>	All	\$40,000 - \$55,000
<b>HRA</b>	Small	\$25,000 - \$40,000
	Medium	\$45,000 - \$70,000
	Large	\$75,000 - \$100,000
<b>RRAP</b>	Small	\$21,000 - \$30,000
	Medium	\$30,000 - \$45,000
	Large	\$45,000 - \$70,000
<b>PNP</b>	All	\$10,000 - \$15,000
<b>Annual Fees (Hot Spots)</b>	Phase I	\$4,000 - \$6,000
	Phase II	\$750 - \$1,000
	Phase III	\$100 - \$400

**Guidebook #:** 01011  
**Project Name:** Various Sources, Install Controls to Reduce Particulate Emissions (R)  
**Pollutant:** PM

**Requirement:** 40 CFR Part 52, Approval and Promulgation of Implementation Plans. Many regulatory agencies have limits on particulate emissions of 0.02 to 0.04 grains per dry standard cubic feet per minute or require control devices with a minimum efficiency of 95%. Check state and/or local regulations.

Process Description: Many processes produce particulate matter including: Abrasive blasting (to remove scale, dirt, paint) and wood working.

*P2 Alternatives:* Note: Facilities should consider the following cost effective pollution prevention alternatives in lieu of emission controls when possible:

1. A vacuum sanding system ([http://enviro.nfesc.navy.mil/p2library/5-08\\_896.html](http://enviro.nfesc.navy.mil/p2library/5-08_896.html)) can reduce the VOC and particulate emissions due to emission capture.
2. Paint stripping using sodium bicarbonate medium ([http://enviro.nfesc.navy.mil/p2library/5-01\\_896.html](http://enviro.nfesc.navy.mil/p2library/5-01_896.html)) can reduce particulate emissions.
3. A water-jet spray system can remove paint while containing particulate emissions, eliminating solvents and dry blast media.

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>) or specifically the Depainting section of the Joint Services Pollution Prevention Opportunity Handbook (<http://enviro.nfesc.navy.mil/p2library/section5.html>).

*EPR Data Entries*

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**Project Name:** Various Sources, Install Controls to Reduce Particulate Emissions (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** NAQP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)

<b>Guidebook #:</b>	<b>01011 (Continued)</b>
<b>Project Name:</b>	<b>Various Sources, Install Controls to Reduce Particulate Emissions</b>
<b>Fund Command:</b>	(pick field from EPR indicating the claimant providing the funds for the project)
<b>Resource Sponsor:</b>	04/09B/07 (pick field from EPR indicating the command sponsoring project)
<b>Cookbook #:</b>	01011 (field must be entered by user)
<b>PPI#:</b>	12 (field must be entered by user, see <a href="#">Appendix E</a> of the Guidebook)
<b>Progress Code:</b>	1,2,3,or 4 (pick field from EPR )
<b>P2 Category:</b>	D00 (pick field from EPR)
<b>Navy Assessment Level:</b>	1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)
<b>AG/SAG:</b>	(field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)
<b>Approving Command:</b>	(pick field from EPR indicating command with authority and responsibility for approving the project)
<b>Regulatory Authority:</b>	1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)
<b>Comments:</b>	(Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of <a href="#">Appendix D</a> for examples and for appropriate format of cost information.)
<b>Narrative:</b>	(Give a detailed description of the project in accordance with <a href="#">Appendix D</a> . Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)
<b>Funding:</b>	(Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is <u>for guidance only</u> . To estimate required funding use local information available or consult your EFD/EFA.)
<b>Fund Code:</b>	O&MN or O&MNR (pick field from EPR)

**Guidebook #:**

**01011 (Continued)**

**Project Name:**

**Various Sources, Install Controls to Reduce Particulate Emissions**

**Other Comments:**

There are various controls for particulates based on process, particle size and conditions.

**Cyclones:** Typically used for particulates greater than 5 microns aerodynamic diameter. Cyclones can also be used as a prefilter for a fabric filter. Cyclones can handle a wide range of temperatures and volumes.

**Fabric Filters:** Typically have a much higher efficiency at smaller particle size. They are 99.8% efficient down to 1 micron aerodynamic diameter. Fabric filters cannot handle wet media or moderate to high temperatures.

**Venturi Scrubber:** Use a water spray for particulate removal. They are effective for less than 0.5 micron aerodynamic diameter. They can treat acidic gases and cool high temperature gases. A waste water stream will result.

**Effective Date:**

As applicable

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Cost listed is for construction of a complete system. Replacements costs of individual pieces of equipment will be less. Design costs can be estimated at 25% of construction cost.

<b>Control Device</b>	<b>Control Cost</b>
Cyclone (500 - 4,000 cfm)	\$75,000 - \$125,000
Fabric Filter; Shaker (500 - 4,000 cfm)	\$100,000 - \$150,000
Fabric Filter; Pulse Jet (500 - 4,000 cfm)	\$120,000 - \$160,000
Venturi High Efficiency	\$150,000 - \$200,000

**Guidebook #:** 01017

**Project Name:** Industrial Ovens, Install Emission Controls (R)

**Pollutant:** VOC

**Requirement:** Required for ozone nonattainment areas only. Control equipment to be installed to reduce VOC emissions from ovens typically used to dry coatings/paint or curing of metal. Fuel burning or electricity are typical heat/power sources of these ovens. Check state and/or local regulations.

***P2 Alternatives:*** Note: Facilities should consider the following cost effective pollution prevention alternatives in lieu of emission controls when possible:

1. Low VOC paints can reduce VOC emissions.
2. Powder coating painting systems ([http://enviro.nfesc.navy.mil/p2library/4-05\\_896.html](http://enviro.nfesc.navy.mil/p2library/4-05_896.html)) eliminates VOCs, hazardous air pollutants, solvents, and produces a superior surface finish.

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>) or specifically the Painting section (<http://enviro.nfesc.navy.mil/p2library/section4.html>) of the Joint Services Pollution Prevention Opportunity Handbook.

***EPR Data Entries***

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**Project Name:** Industrial Ovens, Install Emission Controls – Industrial Ovens (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01017 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Guidebook #:** 01017 (Continued)

**Project Name:** Industrial Ovens, Emission Controls -

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:** Control techniques assumed for cost estimate consist of installation of afterburners for thermal incineration of oven’s exhaust gases containing VOC vapors.

**Effective Date:** Current

**Cost Guidance:** Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

For ovens greater than or equal to 5 MBTU: \$100,000 - \$225,000

**Guidebook #:** 01019

**Project Name:** Incinerator, Install Scrubber and Baghouse (R)

**Pollutants:** PM, SO<sub>x</sub>, NO<sub>x</sub>, HAPs, VOCs

**Requirement:**

Control equipment to control emissions from incinerator (paper, pathological, wood, etc.). Check state and/or local regulations. Standards of performance for incinerators, 40 CFR 60, Subpart E, for incinerators with more than 50 tons/day charging rate. Control strategies for maintenance of ambient air quality standards are set forth in the State Implementation Plan as required by 40 CFR 51, Subpart G. For the EPR submission, provide specific details of the Federal, state, and local regulations that apply and specific information such as a building number, equipment identification number, size, etc., as opposed to simply restating the generic information contained in this document.

*EPR Data Entries*

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**Project Name:** Incinerator, Install Scrubber and Baghouse (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01019 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01019 (Continued)

**Project Name:** Incinerator, Install Scrubber and Baghouse

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Control Device	Control Cost
Bag-house - Shaker	\$100,000 - \$150,000
Bag-house - Pulse Jet	\$200,000 - \$225,000
Wet/dry Scrubber, High Efficiency	\$200,000 - \$300,000
Venturi Scrubber, Low Efficiency	\$150,000 - \$200,000

**Guidebook #:** 01022  
**Project Name:** Solvent Cleaning Operations, Install VOC and HAP Emissions Controls (R)

**Pollutant:** VOC

**Requirement:** Required for solvent cleaning in ozone nonattainment areas and halogenated solvent cleaning covered by Halogenated Solvent Cleaning NESHAP (40 CFR 63, Subpart T). Control equipment to be installed to reduce VOC and HAPs emissions from solvent cleaning operations. This Item includes cold cleaning machines (uses cold or heated, non-boiling solvents) and vapor degreasing machines. The CAA requires states which are in an ozone nonattainment area to update their SIPs to provide for VOC emissions reductions. Check state and/or local regulations.

Control Process: Solvent emissions from the deep tank are controlled using tanks covers, water layer over solvent, hermetic enclosures, cooling coils for condensate production, extending freeboard height, and/or carbon adsorption at system exhausts.

***P2 Alternatives:*** Note: Facilities should consider the following cost effective pollution prevention alternatives in lieu of emission controls when possible:

1. Aqueous Parts Washers ([http://enviro.nfesc.navy.mil/p2library/8-11\\_896.html](http://enviro.nfesc.navy.mil/p2library/8-11_896.html)) can replace VOC/HAP solvents systems.
2. Isopropyl Alcohol (IPA)/Cyclohexane Vapor Degreasers is another alternative that has significant cost and performance savings.
3. Steam Cleaning Systems, ([http://enviro.nfesc.navy.mil/p2library/8-06\\_896.html](http://enviro.nfesc.navy.mil/p2library/8-06_896.html)) including portable hand-held systems, is a solvent alternative for removing oil or grease.

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>) or specifically the Solvent Alternatives (<http://enviro.nfesc.navy.mil/p2library/section8.html>) section of the Joint Services Pollution Prevention Opportunity Handbook.

***EPR Data Entries***

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**Project Name:** Solvent Cleaning Operations, Install VOC and HAP Emissions Controls (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)

**Guidebook #:** 01022 (Continued)

**Project Name:** Solvent Cleaning Operations, Install VOC and HAP Emissions Controls

**Environmental Category:** CVOC (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07(pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01022 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3, or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Guidebook #:** 01022 (Continued)  
**Project Name:** Solvent Cleaning Operations, Install VOC and HAP Emissions Controls

**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

<b>Control Device/Method</b>	<b>Control Cost</b>
Charcoal absorber	\$25,000 - \$30,000
Water layer over solvent, cover, and extended freeboard height	\$25,000 - \$30,000

**Guidebook #:** 01026  
**Project Name:** Electroplating and/or Anodizing Operations, Install Emission Controls on Process Tank Ventilation Exhaust Lines (R)  
**Pollutant:** HAPs  
**Requirement:** 40 CFR 63, Subpart N, requires all decorative chromium electroplating and chromium anodizing process tanks to comply with either an emission concentration standard or a tank solution surface tension standard. Hard chromium electroplating tanks must comply with an emission concentration standard.

***Control Process:***

***Emission Concentration Standard Compliance:*** Air pollution control devices are used to comply with emission concentration standards. The Federal emission standards are based on the performance of a “composite mesh-pad mist eliminator”; however, other devices, such as packed-bed scrubbers, can also be used to achieve compliance.

***Surface Tension Standard Compliance Alternative for Decorative Chrome and Anodize Tanks:*** Surfactant type chemical additives are used to comply with surface tension standards. Surfactant is added to each process tank on a daily or as needed basis. The surface tension is measured every 4 hours to verify compliance. Use Guidebook Item [01026M](#) for achieving compliance using chemical additives.

***P2 Alternatives:*** Note: Facilities should consider cost effective pollution prevention alternatives in lieu of emission controls when possible. Alternatives are emerging to replace the need for some chromium process tanks. For example, many commercial facilities have replaced their chromium anodize process with the Sulfuric/Boric Acid Anodize Process ([http://enviro.nfesc.navy.mil/p2library/5-08\\_297](http://enviro.nfesc.navy.mil/p2library/5-08_297)).

Note: Additional information on these and other P2 alternatives can be obtained by visiting the Electroplating and Metal Finishing section (<http://enviro.nfesc.navy.mil/p2library/section1.html>) of the Joint Services Pollution Prevention Opportunity Handbook.

***EPR Data Entries***

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**Project Name:** Electroplating and/or Anodizing Operations, Install Emission Controls on Process Tank Ventilation Exhaust Lines (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)

**Guidebook #:** 01026 (Continued)

**Project Name:** Electroplating and/or Anodizing Operations, Install Emission Controls on Process Tank Ventilation Exhaust Lines

**Environmental Category:** NEHP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01026 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Guidebook #:** 01026 (Continued)

**Project Name:** Electroplating and/or Anodizing Operations, Install Emission Controls on Process Tank Ventilation Exhaust Lines

**Other Comments:** For more information refer to EPA publication, “A Guidebook on How to Comply with the Chromium Electroplating and Anodizing NESHAP, EPA publication 453/B-95-001, April 1995, or refer to NFESC publication, “NESHAP for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, Compliance Guide, January 1995, by contacting Drek Newton at (805) 982-3903, DSN 551.

**Effective Date:** **Federal:** 40 CFR 63 Subpart N: Current. **State:** refer to applicable state rule.

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. Facility specific information should be used for EPR submissions. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Costs below are for control of chromium process tanks. However, if other process tanks become subject to future emission standards, costs will be similar.

***For Tanks Complying with Emission Concentration Standard:***

If existing control devices are inadequate,

Install New Air Pollution Control Devices (Capital costs in the following table are for a skid-mounted unit with an exhaust fan.)

Control Device	Exhaust Line Flow Rate (CFM)		
	10,000 cfm	20,000 cfm	30,000 cfm
Packed Bed Scrubber (Wet Scrubber)	\$25,000	\$40,000	\$60,000
Composite Meshpad Mist Eliminator	\$30,000	\$50,000	\$70,000

***For Tanks Complying With a Surface Tension Standard:*** Use Item [01026M](#) for achieving compliance for the surface tension standard using chemical additives.

**Guidebook #:** 01026M  
**Project Name:** Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions (R)  
**Pollutant:** HAPs  
**Requirement:** 40 CFR 63, Subpart N, requires all decorative chromium electroplating and chromium anodizing process tanks to comply with either an emission concentration standard or a tank solution surface tension standard. Hard chromium electroplating tanks must comply with an emission concentration standard.

***Control Process:***

***Emission Concentration Standard Compliance:*** Use Guidebook Item [01026](#) for achieving compliance using air pollution control devices. However, it is possible that chemical tank additives such as foam blankets or combination foam blankets/surfactants may be used in conjunction with existing marginal emission control devices to achieve interim or long-term compliance with the emission concentration standard.

***Surface Tension Standard Compliance Alternative for Decorative Chrome and Anodize Tanks:*** Chemical additives are used to comply with surface tension standards. Surfactant is added to each process tank on a daily or as needed basis. The surface tension is measured every 4 hours to verify compliance.

***P2 Alternatives:*** Note: Facilities should consider cost effective pollution prevention alternatives in lieu of emission controls when possible. Alternatives are emerging to replace the need for some chromium process tanks. For example, many commercial facilities have replaced their chromium anodize process with the Sulfuric/Boric Acid Anodize Process ([http://enviro.nfesc.navy.mil/p2library/1-06\\_297.html](http://enviro.nfesc.navy.mil/p2library/1-06_297.html)).

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>) or specifically the Electroplating and Metal Finishing section (<http://enviro.nfesc.navy.mil/p2library/section1.html>) of the Joint Services Pollution Prevention Opportunity Handbook.

***EPR Data Entries***

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**Project Name:** Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** NEHP (pick field from EPR, Law/Reg dep.)

**Guidebook #:** 01026M (Continued)

**Project Name:** Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01026M (field must be entered by user)

**PPI#:** (Leave this entry blank)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** RPMD (pick field from EPR)

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**Guidebook #:** 01026M (Continued)

**Project Name:** Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions

**Other Comments:** For more information refer to EPA publication, “A Guidebook on How to Comply with the Chromium Electroplating and Anodizing NESHAP, EPA publication 453/B-95-001, April 1995, or refer to NFESC publication, “NESHAP for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, Compliance Guide, January 1995, by contacting Drek Newton at (805) 982-3903, DSN 551.

**Effective Date:** **Federal:** Subpart N: 25 Jan 96 for decorative chromium tanks, 25 Jan 97 for hard chromium and chromium anodize tanks. **State:** refer to applicable state rule.

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Costs below are for control of chromium process tanks. However, if other process tanks become subject to future emission standards, costs will be similar.

***For Tanks Complying with Emission Concentration Standard:***  
Only use tank additives in conjunction with existing control devices that are on the borderline of achieving compliance. If control device performance is substantially out of compliance, install a new control device (see Item [01026](#)). Note: There is no need to use additives with newly installed control devices.

***For Tanks Complying with Surface Tension Standard:***  
Note: Control devices are not required if complying with surface tension limits. However, if these tanks are already adequately controlled (possibly co-ventilated with hard chrome tanks to a scrubber) these additives are unnecessary.

**Guidebook #:**

**01026M (Continued)**

**Project Name:**

**Electroplating and/or Anodizing Operations, Use of Chemical Additives to Control Emissions**

**Cost Guidance (Continued):**

(Annual cost per tank for a 32 ft<sup>2</sup> tank)

<b>Process Tank</b>	<b>Chemical Additive</b>		
	Foam Blanket	Surfactant	Combination Foam B/Surf.
Hard Chromium	\$6,000	N/A	\$6,000
Decorative Chromium	\$3,000	\$2,000	\$2,500
Chromium Anodize	N/A	\$2,000	N/A

**Guidebook #:** 01027

**Project Name:** Various Sources, Install Charcoal Adsorption (R)

**Pollutants:** VOC and HAP

**Requirement:** CAA 40 CFR 50.9, 40 CFR 51.103, 40 CFR 51.111. Filter and Modular Carbon Adsorption Systems reduce VOC's (ozone precursors) as well as air toxic pollutants from industrial sources generating them. Check state and/or local regulations.

*EPR Data Entries*

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**Project Name:** Various Sources, Install Charcoal Adsorption (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CVOC (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01027 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01027 (Continued)

**Project Name:** Various Sources, Install Charcoal Adsorption

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Carbon filter cost based on 1080 lbs of carbon and face velocities of 78 and 500 fpm respectively. Modular adsorber cost based on 110 and 5,700 lbs of carbon respectively.

Control Device	Control Cost
Carbon filter	\$10,000 - \$66,000
Modular adsorber	\$1,000 - \$29,000

**Guidebook #:** 01028

**Project Name:** Dispensing Facilities, Retrofit Aboveground Tanks with Secondary Seals (R)

**Pollutants:** VOC and HAP

**Requirement:** Control equipment in aboveground storage tanks storing petroleum products to reduce VOC emissions. Check state and/or local regulations.

*EPR Data Entries*

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**Project Name:** Dispensing Facilities, Retrofit Aboveground Tanks with Secondary Seals (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CVOC (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01028 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01028 (Continued)

**Project Name:** Dispensing Facilities, Retrofit Aboveground Tanks with Secondary Seals

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Floating Roof Tank Retrofit with Secondary Seals:  
\$20,000 - \$30,000

**Guidebook #:** 01030

**Project Name:** Boilers, Convert Diesel/Oil Fired Boilers to Clean Fuel (Such as Natural Gas) (R)

**Pollutant:** NO<sub>x</sub>, PM, SO<sub>x</sub>, VOC

**Requirement:** Required for extreme ozone nonattainment areas for boilers greater than 25 tpy of NO<sub>x</sub>. Conversion of diesel/oil fired boilers to use cleaner fuel (having a much lower content of nitrogen, such as natural gas) to reduce NO<sub>x</sub>, in nonattainment areas when required by the State Implementation Plan. Check state and/or local regulations. Note: Conversion to Natural gas will also lower PM, SO<sub>x</sub> and VOC emissions. (A)

*EPR Data Entries*

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**Project Name:** Boilers, Convert Diesel/Oil Fired Boilers to Clean Fuel (Such as Natural Gas) (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** NAQP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01030 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR )

**P2 Category:** C00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01030 (Continued)

**Project Name:** Boilers, Convert Diesel/Oil Fired Boilers to Clean Fuel (Such as Natural Gas)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR(pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Boiler Conversion: \$80,000/unit

(Cost is based on 20,000 lbs/hr boiler. Burner replacement, new gas fuel train, controls, and \$10,000 for the connection to existing gas fuel line. Local conditions and cost will change.)

**Guidebook #:** 01031

**Project Name:** Fuel Storage/Dispensing Operations, Install Stage I and/or Stage II Vapor Recovery System for Underground/Aboveground Storage Tanks (R)

**Pollutants:** VOC and HAP

**Requirement:** Installation of Stage I Vapor Recovery Systems is required to capture vapors displaced during the bulk loading and unloading of liquid petroleum products into and out of underground and/or aboveground storage tanks. Installation of Stage II Vapor Recovery Systems is required to capture vapors displaced from the vehicle fuel tank during dispensing of liquid petroleum products from underground and/or aboveground storage tanks. Check state and/or local regulations.

*EPR Data Entries*

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**Project Name:** Fuel Storage/Dispensing Operations, Install Stage I and Stage II Vapor Recovery System for Underground/Aboveground Storage Tanks (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CVOC (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01031 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** D00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01031 (Continued)

**Project Name:** Fuel Storage/Dispensing Operations, Install Stage I and/or Stage II Vapor Recovery System for Underground/Aboveground Storage Tanks

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Vapor Recovery System	Cost
Stage I	\$8,000 - \$20,000
Stage II (Single Dispenser - Two Nozzles)	\$19,000 - \$25,000

**Guidebook #:** 01032

**Project Name:** Install Continuous Monitoring Systems

**Pollutants:** Criteria and HAP

**Requirement:** Installation of continuous emissions monitoring (CEM) systems and volumetric flow monitors at "major stationary sources" of criteria pollutants in nonattainment areas when required by permit conditions or other specific regulatory requirement. CEMs may use electronic and optic principles to analyze and record the emissions data. Check state and/or local regulations.

*EPR Data Entries*

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**Project Name:** Install Continuous Monitoring Systems (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** NAQP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01032 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** C01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01032 (Continued)  
**Project Name:** Install Continuous Monitoring Systems  
**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)  
**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)  
**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Typical CEM Systems                      \$150,000 - \$200,000

Use CEM systems only when specifically required by a regulatory agency.

**Guidebook #:** 01033

**Project Name:** Prepare/Update Air Emissions Inventories for Criteria Pollutants and Hazardous Air Pollutants

**Pollutant:** N/A

**Requirement:** CAA Title V and state specific SIPs. Navy activities to prepare or update an inventory of criteria pollutants and hazardous air pollutants (HAP) including emissions from non-permitted sources. Inventories typically include both actual emissions and potential to emit (PTE). The PTE values should not change year to year unless the facility undergoes an operation change, obtains an enforceable permit limit, or determines previous PTE calculations were not performed correctly. An updated air emissions inventory will be required for an activity to prepare or revise a Title V permit application. This effort will be achieved by revising existing toxics and criteria pollutants inventory for new and/or acquired stationary sources. HAP inventories for installations that are "area HAP sources" should be updated when any facility change occurs that could increase the PTE above the threshold for a major HAP source. Check state and/or local regulations.

Initial inventory development should be entered as a separate non recurring project. Updates should be a separate recurring project

*EPR Data Entries*

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**Project Name:** Prepare/Update Air Emissions Inventories for Criteria Pollutants and Hazardous Air Pollutants (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** EINV (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01033 (field must be entered by user)

**PPI#:** 12 for initial inventory development , 6 for inventory updates (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR ) for initial inventory development, 9 for inventory updates

**P2 Category:** A00 (pick field from EPR)

**Guidebook #:** 01033 (Continued)

**Project Name:** Prepare/Update Air Emissions Inventories for Criteria Pollutants and Hazardous Air Pollutants

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** Various methods including the use of the AUL, engineering calculations, AP-42, etc. can be used to generate the air emissions inventory.

The method used to obtain the air emissions inventory (source testing, AP-42, engineering calculations, etc.) should be documented in the event someone questions the validity of the results.

**Effective Date:** Current

**Guidebook #:**

**01033 (Continued)**

**Project Name:**

**Prepare/Update Air Emissions Inventories for Criteria Pollutants and Hazardous Air Pollutants**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Preparation Costs for Criteria Pollutants

<b>Activity Size</b>	<b>Initial Cost</b>	<b>Update Cost</b>
Small (30 Buildings)	\$50,000	\$20,000
Medium (100 Buildings)	\$100,000	\$35,000
Large (150 Buildings)	\$150,000	\$50,000

Preparation Costs for Hazardous Air Pollutants

<b>Activity Size</b>	<b>Initial Cost</b>	<b>Update Cost</b>
Small (30 Buildings)	\$30,000	\$15,000
Medium (100 Buildings)	\$50,000	\$20,000
Large (150 Buildings)	\$75,000	\$25,000

**Guidebook #:** 01036  
**Project Name:** Source Emission Testing  
**Pollutants:** Criteria Pollutants and HAP

**Requirement:** Emission testing is the sampling, measurement, and analysis of effluent gases and/or particulate matter emitted by a stationary source to determine the type, concentration, and/or quantity of specific air contaminants emitted to the atmosphere. Check state and/or local regulations. Emission testing is required by many Federal (40 CFR Parts 60, 61, 63, 70, 71, and 75)/state/local regulations and permit conditions. Some major stationary sources are required to install continuous emission monitors (CEM) systems and volumetric flow monitors. For CEM systems see Guidebook Item [01032](#).

Process Description: Typically, a test protocol is pre-approved by the agency. A probe is placed in the exhaust stack or process vent. A portion of the stack gas is extracted isokinetically (at the same velocity as the stack gas) into the probe nozzle and then through some form of sample collection media or, in the case of gaseous emissions, directly into analyzers. Common collection media include: quartz filters, liquid solutions, and charcoal or similar adsorbant. Collected samples are then weighed or analyzed in a laboratory to quantify the emissions. Different sampling equipment is used for different emissions. Therefore, more than one test may be necessary to demonstrate compliance.

*EPR Data Entries*

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**Project Name:** Source Emission Testing (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** NAQP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01036 (field must be entered by user)  
**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 1,2,3,or 4 (pick field from EPR )  
**P2 Category:** A01 (pick field from EPR)

**Guidebook #:** 01036 (Continued)

**Project Name:** Source Emission Testing

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Use the following cost table or the cost per pollutant measured data at then end of the table.

COST ESTIMATES FOR SOURCE EMISSION TESTING

Source	Total Cost	Pollutants Measured							
		PM	NO <sub>x</sub>	SO <sub>2</sub>	M	MM	D/F	VOC	SV
Abrasive Blaster:	\$15,000	X				X			
Boilers (Coal Fired)	\$40,000	X	X	X		X	X		
Boilers (Gas Fired)	\$10,000	X	X						
Boilers (Oil Fired)	\$30,000	X	X	X			X		
Bulk Fuel Loading:	\$15,000							X	
Cooling Towers:	\$10,000				X				
Dry Cleaning (per exhaust vent):	\$15,000								X
Fire Fighting/Trainers:	\$25,000	X	X				X	X	X
Industrial Furnaces:	\$30,000	X	X				X		
Gas Dispensing Facility:	\$20,000							X	X
Incinerators (All types):	\$45,000	X	X			X	X	X	
Internal Combustion Engines:	\$10,000	X	X						
Jet Engine Test Cells:	\$65,000	X	X			X	X	X	
Lamination:	\$15,000							X	
Ovens:	\$25,000	X	X					X	X
Paint Bays/Hangars:	\$25,000	X			X			X	
Paint Booth:	\$25,000	X			X			X	
Plating/Anodizing (per exhaust line):	\$10,000				X				
Sanding or Grinding Booths:	\$20,000	X				X			
Solvent Recovery:	\$15,000							X	
Solvent Tank Cleaner:	\$15,000							X	
Solvent Tank Stripper:	\$15,000							X	
Spray Solvent Cleaner:	\$15,000							X	
Spray Solvent Stripper:	\$15,000							X	
Vapor Degreaser:	\$15,000							X	
Wood Coating Operation:	\$15,000							X	
PM = particulate matter, NO <sub>x</sub> = oxides of nitrogen, SO <sub>2</sub> = sulfur dioxide, M = one metal (often chromium) MM = multiple metals, D/F = dioxins/furans, VOC = volatile organic compounds, SV = semi-volatiles Costs include 3 test runs for each pollutant.									
Cost per Pollutant Measured									
PM	NO <sub>x</sub>	SO <sub>2</sub>	M	MM	D/F	VOC	SV		
5K	5K	5K	10K	15K	25K	15K	15K		

**Guidebook #:** 01037

**Project Name:** New Source Review Permit

**Pollutant:** N/A

**Requirement:** CAA Sections 165, Part C, and 173 Part D. Facilities whose cumulative emission increases exceed emission threshold limits to satisfy New Source Review (NSR) requirements when applying for new permits.

NSR is an EPA initiated regulatory program that is administered by local air districts and has two regulatory subprograms. The first is Prevention of Significant Deterioration (PSD) which is addressed in the CAA, Title I, Part C and covers NSR in designated attainment areas. The PSD program uses the Best Available Control Technology (BACT). The second subprogram is Nonattainment Areas which is addressed in the CAA, Title I, Part D and uses the more stringent Lowest Achievable Emission Rate (LAER).

*EPR Data Entries*

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**Project Name:** New Source Review Permit (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01037 (field must be entered by user)

**PPI#:** 3 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 9 (pick field from EPR )

**P2 Category:** A01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01037 (Continued)

**Project Name:** New Source Review Permit

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments** The emissions thresholds are for criteria pollutants only.

**Effective Date:** Current when cumulative emissions exceed limits.

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

\$100,000/major stationary source  
(Assumes historical meteorological data is available.)

**Guidebook #:** 01038

**Project Name:** Annual Emission Statements

**Pollutants:** VOC, NO<sub>x</sub>, Sox, PM, CO and HAPs

**Requirement:** Section 182 of CAAA 90, 40 CFR Part 52, requires the submission of a statement showing the actual emissions of NO<sub>x</sub> and VOC from sources located in ozone nonattainment areas. State and local regulations may add requirements to submit a statement showing actual emissions of other criteria pollutants and/or hazardous air pollutants (HAPs). Check state and/or local regulations. The statement shall be submitted annually.

Initial emission statement development should be entered as a separate non-recurring project. Updates should be a separate recurring project

*EPR Data Entries*

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**Project Name:** Annual Emission Statements (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01038 (field must be entered by user)

**PPI#:** 12 for initial emission statement, 6 for emission statement updates (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3, or 4 (pick field from EPR ) for initial emission statement development, 9 for emission statement updates

**P2 Category:** A01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01038 (Continued)

**Project Name:** Annual Emission Statements

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:**

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

A good rule of thumb for estimating the cost to do an emission statement is \$500/source for the initial emissions statement and \$350/source for subsequent emissions statements. An emissions statement is usually less complicated than an emissions inventory because forms are already in place and only through put data is requested. Also many times sources are grouped.

<b>Activity Size</b>	<b><u>Initial Emission Statement:</u></b>	<b><u>Subsequent Annual Emission Statements:</u></b>
Small	\$25,000 - \$40,000	\$18,000 - \$28,000
Medium	\$40,000 - \$60,000	\$28,000 - \$42,000
Large	\$100,000 - \$150,000	\$70,000 - \$105,000

**Guidebook #:** 01040  
**Project Name:** Title III §112(r) Regulated Substances Inventory/Risk Management Plan

**Pollutants:** Hazardous Substances per 40 CFR Part 68

**Requirement:** Federal EPA promulgated 40 CFR Part 68, Accidental Release Prevention Provisions, implements §112(r) CAAA 90. 40 CFR Part 68 affects owners/operators of facilities that have processes that produce, process, handle, or store more than a threshold quantity of listed chemical substances. It is important to emphasize that the thresholds apply to quantities in one or more processes that could be involved in a single accidental release, not to the facility-wide inventory of a chemical substance. Each affected facility must implement a risk management program for each covered process. Covered processes commonly found at military installations are propane and chlorine tanks. The Risk Management Program consists of four major components:

1. Hazard Assessment,
2. Management Program,
3. Prevention Program, and
4. Response Program.

The facility must develop and periodically update a Risk Management “Plan” (RMP) that documents the Risk Management “Program” the facility has in place to prevent accidental releases. Data elements from the RMP must be submitted electronically to the EPA.

After 20 June 99, facilities must update their RMPs (or, of previously unaffected, submit new plans) periodically as follows:

- No less frequently than every 5 years
- 3 years after EPA adds a new substance to Subpart F
- Within 6 months of a change that requires a revised process hazard analysis, hazard review, or off-site consequence analysis
- Within 6 months of a change that alters the Program Level or Risk Management Program applicability
- On the day a regulated substances is first present above a threshold quantity

This project includes the cost for a contractor to assist with the applicability assessment, program development, plan development, and maintenance of a facility’s RMP. Most facilities should be able to perform their own applicability assessment, and resources permitting, since covered processes are generally large and easy to identify. Initial plan development should be a separate non recurring project. Updates should be a separate recurring project.

**Guidebook #:** 01040 (Continued)

**Project Name:** Title III §112(r) Regulated Substances Inventory/Risk Management Plan

*EPR Data Entries*

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**Project Name:** Title III Section 112(r) Regulated Substances Inventory/Risk Management Plan (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01040 (field must be entered by user)

**PPI#:** 12 for initial plan development , 6 for plan updates(field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR ) for initial plan development  
9 for plan updates

**P2 Category:** A00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Guidebook #:** 01040 (Continued)

**Project Name:** Title III §112(r) Regulated Substances Inventory/Risk Management Plan

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:** The Army has developed a guidance document to assist facilities with performing the applicability assessment, preparing a scope of work, and performing a quality assurance review of contractor services. Contact Drek Newton at (805) 982-3903, DSN 551-3903.

- 1) The Part 68 requirements are not an off-the-shelf contractor deliverable. The Risk Management Program is how the facility manages its chemical risks on a day to day basis and must be implemented by the appropriate facility personnel. A contractor can assist facilities with developing their program, performing required off-site consequence and process hazard analyses, and preparation and maintenance of the RMP.
- 2) Many facilities will not be affected by 40 CFR Part 68.

**Effective Date:** 20 June 1999

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Inventory/RMP

	Applicability Assessment (Inventory)	Program Development Covered Process Number of Process at the Facility	per Process X Assumed at the Facility	RMP Preparation	Total
Large activity:	\$20,000	\$10,000 x 5 = \$50,000		\$40,000	\$110,000
Medium:	\$15,000	\$10,000 x 3 = \$30,000		\$25,000	\$70,000
Small activity:	\$10,000	\$10,000 x 2 = \$20,000		\$10,000	\$40,000

Risk Management Plan Update:  
 New Covered Process \$20,000  
 Revise Analysis for Existing Covered Process \$10,000

**Guidebook #:** 01047

**Project Name:** Title V Permit

**Pollutant:** N/A

**Requirement:** 40 CFR Parts 70 and 71. This applies to Navy activities that are required to revise or renew their Title V permits and Navy activities that were minor sources but increased emissions above threshold limits. This effort will be achieved by revising existing toxics and criteria pollutants inventory for new and/or acquired stationary sources. Check state and/or local regulations.

Initial permit application development should be entered as a separate non-recurring project. Updates should be a separate recurring project

*EPR Data Entries*

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**Project Name:** Title V Permit (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01047 (field must be entered by user)

**PPI#:** 12 for initial permit application development, 3 for periodic permit application updates (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3, or 4 (pick field from EPR ) for initial permit application development, 9 for periodic permit application updates

**P2 Category:** A01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01047 (Continued)

**Project Name:** Title V Permit

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** Large activity; more than 150 significant sources  
 Medium activity; between 50 and 100 significant sources  
 Small activity; less than 50 significant sources

**Effective Date:** Depends on current permit expiration date and/or changes on facility operations.

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance (assuming an updated emission inventory is available). Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Activity Size	New Permits:	Permit Revisions/Renewals:
Small	\$25,000 - \$50,000	\$5,000 - \$20,000
Medium	\$50,000 - \$150,000	\$25,000 - \$45,000
Large	\$200,000 - \$300,000	\$50,000 - \$75,000

**Guidebook #:** 01051

**Project Name:** Emission Reduction Credits Plan

**Pollutants:** VOC, NO<sub>x</sub>

**Requirement:** This Item consists of inventorying emissions and generating emission reduction credits (ERC) and offsets from internal sources or their procurement from external sources. This only applies where a state or local economic incentive program exists and allows the marketing and use of stationary and/or mobile sources emission reduction credits and offsets. Only in such areas can Navy activities generate and acquire ERCs and offsets for operations at installations and for installations subject to emission increases. Specific requirements are contained in the SIP submitted to EPA for approval under the Economic Incentive Programs, 40 CFR 51, Subpart U. Check state and/or local regulations.

Initial plan development should be a separate non recurring project. Updates should be a separate recurring project.

*EPR Data Entries*

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**Project Name:** Emission Reduction Credits Plan (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** EINV (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01051 (field must be entered by user)

**PPI#:** 12 for initial plan development , 6 for plan updates (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR ) for initial plan development  
9 for plan updates

**P2 Category:** A00 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Guidebook #:** 01051 (Continued)

**Project Name:** Emission Reduction Credits Plan

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:** Applies to Nonattainment areas only with established ERC and Mobile Emission Reduction Credit (MERC) programs. Note: In case of expansion/new construction its ERCs cost must be included in the project that paid for the cost of expanding the existing facility or constructing the new facility and not in a EPR submission.

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance (assuming an updated emission inventory is available). Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Activity Size	Cost
Small (75 Sources)	\$20,000 - \$25,000
Medium (100-350 Sources)	\$30,000 - \$45,000
Large (>400 Sources)	\$50,000 - \$70,000

**Guidebook #:** 01053

**Project Name:** Work Trip Reduction Plans

**Pollutants:** VOC, NO<sub>x</sub>, PM

**Requirement:** Public Law 104-70 amended CAA section 182d(1)(B) specifically allowing states to withdraw their “employer trip reductions” (ETR) plans once they notify EPA in writing that they are undertaking an alternative emissions reduction plan. Public Law 104-70 made ETR a state option. It is also known as HR 325. The law allows the states with severe ozone nonattainment areas to withdraw the previous ETR mandated for large employers (>100 employees), as long as the states devise an equivalent emissions reduction plan. Thus, each facility must check with its state or local air district for specific requirement citations. Note that there may not be any requirements.

Initial plan development should be a separate non recurring project. Updates should be a separate recurring project.

*EPR Data Entries*

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**Project Name:** Work Trip Reduction Plans (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CVOC (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01053 (field must be entered by user)

**PPI#:** 12 for initial plan development , 6 for plan updates (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3,or 4 (pick field from EPR ) for initial plan development  
9 for plan updates

**P2 Category:** A01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Guidebook #:** 01053 (Continued)

**Project Name:** Work Trip Reduction Plans

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** State and local ETR plans may come in a variety of forms and names. Some state or local districts may implement an ETR program even though they have no severe ozone non attainment areas. Some may be developed to reduce the number of work-related vehicle trips and miles traveled so as to help comply with the transportation performance standards (reduction of traffic congestion), energy saving requirements, as well as ambient air quality standards. Check with your local regulators for applicable requirements.

**Effective Date:** Currently implemented at state level depending on local regulations.

**Guidebook #:**

**01053 (Continued)**

**Project Name:**

**Work Trip Reduction Plans**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

<b>Cost Item</b>	<b>Cost Range</b>	<b>Typical Cost</b>
Administrative (personnel time and surveys)	\$2500 to \$6400	\$3,000
Capital	\$60 to \$12,500	\$1000
Subsidies	\$0 to \$2600	\$2000
Materials and Supplies	\$70 to \$350	\$350

The costs provided above were taken from a study done by the Washington State Department of Transportation in 1995. A survey was taken of 283 work sites. The cost data gathered was given in four categories, administrative, capital costs, subsidies, and materials and supplies. The results are not given by size of the site. The costs which are recommended are based on averages and skewed toward the most commonly reported figures.

**Guidebook #:** 01056  
**Project Name:** Medical Waste Incinerator, Install Control Equipment (R)  
**Pollutants:** NO<sub>x</sub>, HAP  
**Requirement:**

EPA issued final regulations for existing and new medical waste incinerators in September 1997. The final rule is found in 40 CFR 60 (Subpart Cc for existing and Subpart Ec for new). Emission standards in the final rule are based on the performance of the control devices identified in the following table.

Incinerator Size	Incinerator Capacity	MACT For Existing Sources
Small, Rural	< 2000 lb/week	Good Combustion Practices
Small	< 200 lb/hr	Moderate efficiency wet scrubber
Medium	200 - 500 lb/hr	Moderate efficiency wet or dry scrubber
Large	> 500 lb/hr	High efficiency wet or dry scrubber

Note: Alternative waste disposal processes may be cost effective.

Most States already regulate medical waste incinerators for pollutant emissions such as particulate matter, opacity, hydrogen chloride and require good operating and design practices. States will likely amend their rules to include the new Federal HAP emission standards or simply replace their State rule with the Federal Rule.

***P2 Alternatives:*** Alternatives include:

- Steam Disinfection (Autoclave)
- Microwave
- Chemical Disinfection
- Electro-thermal Deactivation
- Pyrolysis
- Subcontracting Disposal to a Better Controlled Incinerator

Note: Additional information on these and other P2 alternatives can be obtained by visiting the **P2 Library** (<http://enviro.nfesc.navy.mil/p2library>).

***EPR Data Entries***

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**Project Name:** Medical Waste Incinerator, Install Control Equipment (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Guidebook #:** 01056 (Continued)

**Project Name:** **Medical Waste Incinerator, Install Control Equipment**

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01056 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3, or 4 (pick field from EPR )

**P2 Category:** C02 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Federal: Estimated in July 2002

**Guidebook #:**

**01056 (Continued)**

**Project Name:**

**Medical Waste Incinerator, Install Control Equipment**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Capital cost to comply with the Federal emission standards.

Incinerator Size	Incinerator Capacity	MACT For Existing Sources
Small, Rural	Uses < 2,000 lb/week	\$25K
Small	< 200 lb/hr	\$250K
Medium	200 - 500 lb/hr	\$325K
Large	> 500 lb/hr	\$475K

### ***P2 Alternatives:***

For cost and information regarding the latest P2 alternatives contact the Naval Environmental Health Center. Typical costs for most alternatives range from \$200 to \$600K.

**Guidebook #:** 01057  
**Project Name:** Determine MACT for Planned Construction and Reconstruction of Major HAP Sources  
**Pollutant:** HAPs  
**Requirement:** 40 CFR 63 Subpart B §§63.40-63.44 affects constructed and reconstructed major sources of HAPs *which are not* yet *subject to a NESHAP* or other relevant standard or exemption under 40 CFR 63.

These provisions potentially apply to:

1. construction of *entire new facilities*, and
2. construction of *new process or production units* at existing facilities, and
3. reconstruction of *existing process or production units* at existing facilities.

To be affected by this rule, the sources undergoing construction or reconstruction must emit major source quantities of HAPs; 10 tons per year (tpy) of a single HAP or 25 tpy of any combination of HAPs. If you want to construct or reconstruct a major HAP source (or sources), you must determine MACT, obtain a “Notice of MACT Approval” (or comparable approval from the permitting authority), and install MACT at the time of construction or reconstruction.

The following sources are *exempt* from this rule:

- Electric Utility Steam Generating Units
- Stationary Sources in Deleted Source Categories
- Research and Development Activities

These requirements become effective in a State:

1. After a State has an approved Title V program in place, and
2. On the effective date of the program that the permitting authority adopts to implement this rule. The permitting authority must adopt a program to implement this rule no later than 27 Jun 98.

**Project Description:** This project covers the cost for a contractor to perform the following:

1. Determine MACT on a case-by-case basis using the principles described in 40 CFR 63 Subpart B §63.43(d).
2. Prepare an “Application for MACT Approval” in accordance with §63.43(e). The facility owner must submit this application to the permitting authority. The facility will hopefully receive a “Notice of MACT Approval” and must comply with the requirements of this notice upon startup of the constructed or reconstructed major source of HAPs.

**Guidebook #:** 01057 (Continued)

**Project Name:** Determine MACT for Planned Construction and Reconstruction of Major HAP Sources

*EPR Data Entries*

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**Project Name:** Determine MACT for Planned Construction and Reconstruction of Major HAP Sources (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01057 (field must be entered by user)

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**P2 Category:** A01 (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Guidebook #:** 01057 (Continued)

**Project Name:** Determine MACT for Planned Construction and Reconstruction of Major HAP Sources

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:**

**Effective Date:** Current (R)

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Cost to prepare a MACT determination will vary depending on the amount of information that has already been (or is projected to be) developed by EPA for the relevant source category. If EPA is in the process of developing a NESHAP that will eventually cover the constructed or reconstructed sources, the cost will be less than if EPA has not yet begun the development process.

Information that Will be Available From EPA About The Source To Be Constructed or Reconstructed.	Project Cost
None	50,000
Presumptive MACT	25,000
Proposed NESHAP	10,000

**Guidebook #:** 01058

**Project Name:** NESHAP Compliance

**Pollutant:** HAPs

**Requirement:** 40 CFR 63 contains National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories. These standards require the use of Maximum Achievable Control Technology (MACT) and hence are often referred to as MACT standards. Section 112(e) of the Clean Air Act requires EPA to promulgate new NESHAPs as expeditiously as practicable. EPA's schedule for promulgating new NESHAPs is specified in 58 FR 63941. As new NESHAPs are promulgated, facilities, which are subject to a given standard, must comply with that standard per the compliance schedule contained in each NESHAP.

The most recent NESHAPs impacting the Navy are the NESHAP covering Shipbuilding and Ship Repair (Surface Coating), and the NESHAP covering Aerospace Manufacturing and Rework Facilities. Compliance requirements are specific to each NESHAP. For example the Aerospace NESHAP requires use of low VOC and low HAP paints, use of compliant cleaning procedures and materials, recordkeeping, and Notifications of Compliance Status (NCS).

This Item is to be used to cover compliance efforts not only for the Aerospace and Shipbuilding NESHAPs but also for new NESHAPs as they are promulgated. Compliance requirements will be specified by each new NESHAP as it is promulgated. The user must provide information to identify the specific applicable regulation in the "Narrative" field of the EPR software (e.g., 40 CFR 63.xx). Emission control equipment covered by other Guidebook Items should not be included under this Guidebook Item.

### *EPR Data Entries*

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**Project Name:** NESHAP Compliance (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01058 (field must be entered by user)

**Progress Code:** 1,2,3 or 4 (pick field from EPR )

**Guidebook #:** 01058 (Continued)  
**Project Name:** NESHAP Compliance

*EPR Data Entries:* \_\_\_\_\_

**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**P2 Category:** A01 (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)  
**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)  
**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)  
**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)  
**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)  
**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)  
**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)  
**Fund Code:** O&MN or O&MNR (pick field from EPR)

**Other Comments:**

**Effective Date:** Current for Aerospace and Shipbuilding NESHAPs. As Applicable for others.

**Guidebook #:** 01058 (Continued)

**Project Name:** NESHAP Compliance

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Cost to comply with a NESHAP will depend on the specific requirements of each NESHAP and the size and complexity of the facility impacted.

<b>Guidebook #:</b>	<b>01940</b>
<b>Project Name:</b>	<b>Training</b>
<b>Pollutant:</b>	N/A
<b>Requirement:</b>	<p>This Item applies to any training that is specifically required by a permit condition, or to obtain any knowledge or skill (e.g. Operators of Continuous Emissions Monitors) that is specifically required to comply with a regulatory requirement. Such training includes but is not limited to the following examples.</p> <p><b>1) 40 CFR Part 68, Risk Management</b> Programs for Chemical Accidental Release Prevention §68.30 Prevention program training. This section requires process operators to have initial training in processes and procedures as specified in §68.28, which is the prevention program. Section 68.30 (c) requires refresher training each 3 years.</p> <p><b>2) 40 CFR 60 Subpart Ec, Medical Waste Incinerators (MWI).</b> One or more operator must be qualified to operate the incinerator by completing a training course and obtaining a certain level of experience. The training course must be a State approved program or training course with 24 hours of classroom instruction, a final exam appropriate reference material supplied by the course instructor. Operators may obtain qualification by completing a training course and having one of the following levels of experience: (1) at least 6-months' experience as an MWI operator, (2) at least 6-months' experience as the direct supervisor of a qualified MWI operator, or (3) completion of at least two burn cycles under the observation of two qualified operators. To maintain qualification, the operator would be required to complete and pass an annual review or refresher course of at least 4 hours.</p> <p><b>3) CAA § 129(d), Solid Waste Incinerators,</b> requires the implementation of a training and certification program of solid waste incinerator unit operators and high-capacity fossil fuel fired plant operators. High Capacity Fuel Fired Plants would consist of the following : Industrial Institutional Commercial Boilers with a capacity of <math>1 \times 10^6</math> btu/hr or greater, Process Heaters for Solid Waste Incinerators with a capacity of <math>1 \times 10^6</math> btu/hr or greater, Stationary Commercial Combustion Engines 100 horsepower or greater, and Stationary Gas Turbines 100 horsepower or greater. These training standards are not yet promulgated. Note that other state or local requirements may apply.</p>

<b>Guidebook #:</b>	<b>01940 (Continued)</b>	
<b>Project Name:</b>	<b>Training</b>	
<b>Requirement (Continued)</b>	<p><b>4) 40 CFR 82, Stratospheric Ozone Protection.</b> 40 CFR 82.42 and 82.161 require the training and certification of air conditioning and refrigeration technicians. Also, 40 CFR 82.270(c) requires appropriate training on halon emissions reduction for technicians who test, maintain, service, repair or dispose of halon containing equipment.</p> <p><b>5) 40 CFR 145(c)(8), Asbestos Demolition and Renovation.</b> This section requires that one or more on site representatives must be trained and present before any regulated asbestos containing material is stripped, removed or otherwise handled at a facility regulated by 40 CFR 145. Every two years the trained personnel shall receive refresher training. The minimum requirements for what is covered by the training are specified in the CFR section.</p>	(A)  (A)

*EPR Data Entries*

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<b>Project Name:</b>	Training (field must be entered by user)
<b>Law/Regulatory Area:</b>	MULT (pick field from EPR)
<b>Environmental Category:</b>	TRNG (pick field from EPR, Law/Reg dep.)
<b>Project Assessment:</b>	H/M/L (pick field; high, medium, low)
<b>Compliance Status:</b>	(pick field from EPR , automatically changes class)
<b>Pillar:</b>	CMP (pick field from EPR software)
<b>Fund Command:</b>	(pick field from EPR indicating the claimant providing the funds for the project)
<b>Resource Sponsor:</b>	04/09B/07 (pick field from EPR indicating the command sponsoring project)
<b>Cookbook #:</b>	01940 (field must be entered by user)
<b>PPI#:</b>	2 (field must be entered by user, see <a href="#">Appendix E</a> of the Guidebook)
<b>Progress Code:</b>	9 (pick field from EPR )
<b>P2 Category:</b>	(pick field from EPR)
<b>Navy Assessment Level:</b>	1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)
<b>AG/SAG:</b>	(field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)
<b>Approving Command:</b>	(pick field from EPR indicating command with authority and responsibility for approving the project)
<b>Regulatory Authority:</b>	1-3 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Guidebook #:** 01940 (Continued)

**Project Name:** Training

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (Pick field from EPR)

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**Other Comments:** These training requirements come from NESHAP requirements, New Source Performance Standards (NSPS) and Stratospheric Ozone Protection requirements. Your state or local district may have promulgated other more stringent standards or training requirements. Check with your local regulators.

See additional information provided in section [A.6.a of Chapter 0](#).

**Effective Date:**

- 1) 40 CFR Part 68, Risk Management, June 1999
- 2) 40 CFR 60 Subpart Ec, Medical Waste Incinerators, July ‘1997
- 3) CAA §129(d), Solid Waste Incinerators, final regulations not yet promulgated
- 4) 40 CFR 82, Stratospheric Ozone Protection, Current
- 5) 40 CFR 145(c)(8), Asbestos Demolition and Renovation, Current

**Guidebook #:**

**01940 (Continued)**

**Project Name:**

**Training**

**Cost Guidance:**

To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. Note: The following figures are for general guidance only. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

<b>Activity Size</b>	<b>Cost Per Program</b>
Small	\$2,000
Medium	\$7,500
Large	\$15,000

**Guidebook #:** 01949  
**Project Name:** Travel Related to 01940 (Activities please use a descriptive title)  
**Requirement:** Dependent upon specific training requirements indicated in Guidebook Item [01940](#).

*EPR Data Entries*

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**Project Name:** Travel Related to 01940 (field must be entered by user)  
**Law/Regulatory Area:** MULT (pick field from EPR)  
**Environmental Category:** PGMT (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR, automatically changes class)  
**Pillar:** PVN or CMP or CNS or CLN (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 4/09B/07 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01949 (field must be entered by user)  
**PPI#:** 2 (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 9 (pick field from EPR)  
**P2 Category:** (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)  
**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)  
**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)  
**Regulatory Authority:** 1, 4-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)  
**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)  
**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Guidebook #:** 01949 (Continued)

**Project Name:** Travel Related to 01940 (Activities please use a descriptive title)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (Pick field from EPR)

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**Other Comments:** This Guidebook Item should only be used for travel requirements that are related to training as indicated in Guidebook Items [01940](#). Activities must enter the title and purpose of the travel being requested. Use only if total travel cost for any single year is more than \$5,000.

See additional information provided in section A.5.b of Chapter 0.

**Effective Date:** Dependent on specific training requirements.

**Cost Guidance:** Dependent on specific training locations.

**Guidebook #:** 01950  
**Project Name:** Specific State Requirements  
**Pollutant** N/A  
**Requirement:** Specific state air pollution control and abatement requirements which are either more stringent than or not addressed in existing Federal requirements.

*EPR Data Entries*

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**Project Name:** Specific State Requirements (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01950 (field must be entered by user)  
**PPI#:** 6 IF RECURRING, 12 IF NON RECURRING (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 9 IF RECURRING, 1,2,3 or 4 IF NON RECURRING(pick field from EPR )  
**P2 Category:** (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)  
**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)  
**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)  
**Regulatory Authority:** 2 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)  
**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

<b>Guidebook #:</b>	<b>01950 (Continued)</b>
<b>Project Name:</b>	<b>Specific State Requirements</b>
<b>Narrative:</b>	(Give a detailed description of the project in accordance with <a href="#">Appendix D</a> . Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)
<b>Funding:</b>	(Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is <u>for guidance only</u> . To estimate required funding use local information available or consult your EFD/EFA.)
<b>Fund Code:</b>	O&MN or O&MNR (pick field from EPR)
<hr/>	
<b>Other Comments:</b>	This Guidebook Item should only be used for specific State requirements that are not addressed in the requirements of an existing Guidebook Item.
<b>Effective Date:</b>	Dependent on specific State air pollution control and abatement requirements.
<b>Cost Guidance:</b>	Dependent on specific State air pollution control and abatement requirements.

**Guidebook #:** 01960

**Project Name:** Specific Local Requirements

**Pollutant** N/A

**Requirement:** Specific local air pollution control and abatement requirements which are either more stringent than or not addressed in existing Federal or state requirements.

*EPR Data Entries*

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**Project Name:** Specific Local Requirements (Such as Natural Gas) (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01960 (field must be entered by user)

**PPI#:** 6 IF RECURRING, 12 IF NON RECURRING (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 9 IF RECURRING, 1,2,3,or 4 IF NON RECURRING(pick field from EPR )

**P2 Category:** (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 3(pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

<b>Guidebook #:</b>	<b>01960 (Continued)</b>
<b>Project Name:</b>	<b>Specific Local Requirements</b>
<b>Narrative:</b>	(Give a detailed description of the project in accordance with <a href="#">Appendix D</a> . Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)
<b>Funding:</b>	(Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is <u>for guidance only</u> . To estimate required funding use local information available or consult your EFD/EFA.)
<b>Fund Code:</b>	O&MN or O&MNR (pick field from EPR).

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<b>Other Comments:</b>	This Guidebook Item should only be used for specific local requirements that are not addressed in the requirements of an existing Guidebook Item.
<b>Effective Date:</b>	Dependent on specific local air pollution control and abatement requirements.
<b>Cost Guidance:</b>	Dependent on specific local air pollution control and abatement requirements.

**Guidebook #:** 01970  
**Project Name:** Specific Overseas Requirements  
**Pollutant** N/A  
**Requirement:** DoD Instruction 4715.5 and OPNAVINST 5090.1B requires compliance with the Final Governing Standards (FGS) or the Overseas Environmental Baseline Guidance Document (OEBGD), if a FGS has not been written, to protect human health and the environment.

*EPR Data Entries*

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**Project Name:** Specific Overseas Requirements (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** CTAP (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 04 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01970 (field must be entered by user)  
**PPI#:** 6 IF RECURRING, 12 IF NON RECURRING (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 9 IF RECURRING, 1,2,3 or 4 IF NON RECURRING(pick field from EPR )  
**P2 Category:** (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)  
**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)  
**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)  
**Regulatory Authority:** 5, 6 or 7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)  
**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

<b>Guidebook #:</b>	<b>01970 (Continued)</b>
<b>Project Name:</b>	<b>Specific Overseas Requirements</b>
<b>Narrative:</b>	(Give a detailed description of the project in accordance with <a href="#">Appendix D</a> . Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)
<b>Funding:</b>	(Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is <u>for guidance only</u> . To estimate required funding use local information available or consult your EFD/EFA.)
<b>Fund Code:</b>	O&MN or O&MNR (pick field from EPR)

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<b>Other Comments:</b>	Project name/title must be specific describing the exact requirement that is being addressed. Costs should be based upon historical data and similar projects in CONUS. Your geographical EFD/EFA can assist in the formalization of the requirement and provide budget estimates.
<b>Effective Date:</b>	Dependent on specific air Final Governing Standards (FGS) or Overseas Environmental Baseline Governing Document (OEBGD) requirements.
<b>Cost Guidance:</b>	Dependent on specific Final Governing Standards (FGS) or Overseas Environmental Baseline Governing Document (OEBGD) requirements.

**Guidebook #:** 01980  
**Project Name:** Program Fees  
**Pollutant** N/A  
**Requirement:** Payment of fees to regulatory agencies to support air pollution control and abatement requirements.

*EPR Data Entries*

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**Project Name:** Program Fees (field must be entered by user)  
**Law/Regulatory Area:** CAA (pick field from EPR)  
**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)  
**Project Assessment:** H/M/L (pick field; high, medium, low)  
**Compliance Status:** (pick field from EPR , automatically changes class)  
**Pillar:** CMP (pick field from EPR software)  
**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)  
**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)  
**Cookbook #:** 01980 (field must be entered by user)  
**PPI#:** 12 (field must be entered by user, see [Appendix E](#) of the Guidebook)  
**Progress Code:** 1,2,3 or 4 (pick field from EPR )  
**P2 Category:** (pick field from EPR)  
**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)  
**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)  
**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)  
**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)  
**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)  
**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Guidebook #:** 01980 (Continued)

**Project Name:** Program Fees

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** This Guidebook Item should only be used for specific requirements related to the payment of fees that are not addressed in the requirements of an existing Guidebook Item.

**Effective Date:** Dependent on specific air pollution control and abatement requirements.

**Cost Guidance:** Dependent on specific air pollution control and abatement requirements.

**Guidebook #:** 01981

**Project Name:** Annual Operating Permit/Emissions Fees (R)

**Pollutant:** N/A

**Requirement:** State and/or local regulations require facilities which are subject to operating permits due to operating sources which emit and/or could potentially emit air pollutants to remit permit fees annually. Clean Air Act (CAA), 40 CFR Parts 70 and 71. Check state and/or local regulations.

*EPR Data Entries*

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**Project Name:** Annual Operating Permit/Emissions Fees (field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** PRMT (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04/09B/07 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01981 (field must be entered by user)

**PPI#:** 3 (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 9 (pick field from EPR )

**P2 Category:** (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01981 (Continued)  
**Project Name:** Annual Operating Permit/Emissions Fees  
**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)  
**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)  
**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** The initial permit fee is considered an environmental funding requirement and therefore the appropriate EPR entry at “Fund Code” is “O&MN”.

**Effective Date:** Current

**Cost Guidance:** To estimate project specific cost requirements, obtain an estimate from your EFD/EFA or a local environmental services contractor, or use the following cost guidance. As indicated in [paragraph A.2 of Chapter 0](#) facility specific information should be used for developing cost estimates for the EPR submissions.

Most States base their fees on actual emissions of regulated pollutants. California has an assortment of fee schedules, and some are based on an hourly rate. Contact your regulatory agency applicable fee schedules.

Most states \$25/ton of actual emissions of regulated pollutants

**Guidebook #:** 01999

**Project Name:** Miscellaneous Requirements (Activities please use a descriptive title)

**Requirement:** Provide support for specific air pollution control and abatement requirements not addressed in an existing Cookbook Item. This Item may be used for asbestos projects that are required by environmental regulations only and not by Occupational Safety and Health requirements and are not related to a demolition or renovation project. In addition, this item may be used for conformity applicability determinations not related to a NEPA action. (A)

*EPR Data Entries*

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**Project Name:** Miscellaneous Requirements (Activities please use a descriptive title)  
(field must be entered by user)

**Law/Regulatory Area:** CAA (pick field from EPR)

**Environmental Category:** (pick field from EPR, Law/Reg dep.)

**Project Assessment:** H/M/L (pick field; high, medium, low)

**Compliance Status:** (pick field from EPR , automatically changes class)

**Pillar:** CMP (pick field from EPR software)

**Fund Command:** (pick field from EPR indicating the claimant providing the funds for the project)

**Resource Sponsor:** 04 (pick field from EPR indicating the command sponsoring project)

**Cookbook #:** 01999 (field must be entered by user)

**PPI#:** 6 if recurring, 12 if non recurring (field must be entered by user, see [Appendix E](#) of the Guidebook)

**Progress Code:** 9 if recurring, 1,2,3,4 if non recurring (pick field from EPR )

**P2 Category:** (pick field from EPR)

**Navy Assessment Level:** 1-5 (field must be entered by user: 1-legal requirement, 2-navy policy, 3-pending regulation, 4-future requirement, 5-leadership initiative)

**AG/SAG:** (field must be entered by user; accounting group/sub-accounting group, claimant provides this code.)

**Approving Command:** (pick field from EPR indicating command with authority and responsibility for approving the project)

**Regulatory Authority:** 1-7 (pick field from EPR, indicating regulation reference: federal, state, local, etc.)

**Comments:** (Provide additional information to further clarify any of the above Guidebook Item elements and to further justify the project. Use this field to provide information that explains how the funds requested were calculated (e.g., indicate unit price and number of units considered to develop the cost estimates). See paragraph B.3 of [Appendix D](#) for examples and for appropriate format of cost information.)

**Guidebook #:** 01999 (Continued)

**Project Name:** Miscellaneous Requirements (Activities please use a descriptive title)

**Narrative:** (Give a detailed description of the project in accordance with [Appendix D](#). Use information provided as guidance by this Guidebook under sections “Requirement”, “Other Comments”, and “Cost Guidance” as well as local information available.)

**Funding:** (Provide funds requested for each year of the PR or POM cycle. Information provided by this Guidebook under section “Cost Guidance” is for guidance only. To estimate required funding use local information available or consult your EFD/EFA.)

**Fund Code:** O&MN or O&MNR (pick field from EPR)

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**Other Comments:** This Guidebook Item should only be used for specific requirements that are not addressed in the requirements of an existing Guidebook Item.

**Effective Date:** Dependent on specific air pollution control and abatement requirements.

**Cost Guidance:** Dependent on specific pollution control and abatement requirements.

