

ACHIEVING ENVIRONMENTAL AIR QUALITY COMPLIANCE AT AIR FORCE BASES

RECOMMENDED BASIC STEPS

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AIR QUALITY CHALLENGE

- Develop Program to Help
 - Achieve and Maintain Air Quality Compliance
 - Identify Pollution Prevention Opportunities
 - Prioritize Air Quality Projects
 - Collect Metrics Related Data
 - Train Shop Operators in Air Quality
 - Reduce Compliance Requirements
 - Effect Cost Savings



Basic Steps

- Surveying air pollution units
- Identifying compliance concerns for each unit
- Finding solutions for each concern
- Labeling air pollution units
- Placing survey data for each unit into CAD
- Preparing operation logs for each unit
- Developing reporting spreadsheets for units
- Compiling air quality shop training manuals
- Documenting air quality training for shops
- Updating air quality documents



Survey Air Pollution Emission Units

- Building by building inspection
- Pertinent data in spreadsheet – unit location, air emission inventory (AEI) number, compliance site inventory (CSI) number, model and serial number, etc
- This step also Identifies units not permitted, no longer operational, or not properly identified and as a result can help avoid fines



Identify concerns for each Unit in spreadsheet

➤ Example:

- No filter velocities for abrasive units
- Stack height of unit does not comply with permit by rule requirements

➤ Concerns are action items to be resolved



Important tool in identifying pollution prevention opportunities

INVENTORY SPREADSHEET (example)

									Date	
Operation	Bld	AEI #	CSI #	Equipment Type	Other Info	Manufacturer	Model #	Serial #	Installed	Contact
Abrasive Blasting	7	R7BLAST1	TYMX00007AIRM2	Glove Box	Glass Media	Abrasive Blast	W1	2C1101		Jerry Wilson
	16	R16BLAST1	TYMX00016AIRM10	Glove Box	Wet/Sand Media	Vapor Blaster	VBLH3030SS	6658		Duane Shultz
Removed	16	R16BLAST2	TYMX00016AIRM11	Glove Box	Unit Removed					
	47	R47BLAST1	TYMXX00047AIRM1	Portable machine	Plastic Media.	Raymond Systems	800296	100-631	Aug-94	Randy West
	47	R47BLAST2	TYMXX00047AIRM2	Portable machine	Requested determination from	Raymond Systems	800296	100-633	Aug-94	Randy West
				Machine in open face	TNRCC to determine if hangar is					
				hangar with plastic	Enclosed operation.					
				strips that serve as	No filter velocities. No records kept					
				a wall.	of operating hours or media usage.					
	61	R61BLAST2	TYMX00061AIRM6	Glove Box	Plastic Media	Abrasive Systems				Tony Delagarza
	61	R61BLAST1	TYMX00061AIRM5	Blasting facility	Plastic Media. Fully enclosed	Royce Systems	N/A. Various	5850		Tony Delagarza
					facility inside hangar. No filter		components			
					velocities. TNRCC issued					
					exemption from permitting letter					
					on 4/19/88. Exemption No, 18802.					

Example



Label air pollution emission units

- Use information in database to develop labels (barcodes if needed)
- Easy identification of unit
- Promotes environmental awareness
- Environmental Flight to be notified before unit is moved



Develop Survey CAD

- Input survey data into base CAD at the building level
- Quickly locate unit without going into the field



Develop shop operating logs

- One log for each air pollution unit
- Data keyed to compliance requirements



Develop reporting spreadsheets

- Input process material usage
- Spreadsheet automatically calculates emissions or APIMS can manage data
- Simple “yes” or “no” question to determine if unit is still in compliance (Red Flags)
- Shops periodically e-mail data to Environmental Flight
- Means of collecting metrics related data for the air quality program

Example Reporting Spreadsheet (enclosed abrasive cleaning unit under TNRCC Permit by Rule §106.452)

LOCATION & ID OF AIR EMISSION UNIT	
Building number	
Abrasive cleaning operation AEI #	
Abrasive cleaning operation CSI #	
Contact's name	
Contact's organization	
Contact's phone number	
REQUIRED OPERATION LOGS FOR AIR EMISSION UNIT	
Records of operating hours are maintained.	Yes
Records of abrasive material usage are maintained.	Yes
INPUT DATA FOR APIMS CALCULATIONS	
Filter efficiency (percent).	
Abrasive media used this past month (lbs).	
Hours of operation this past month.	
CHECKLIST REQUIREMENTS FOR AIR EMISSION UNIT	
Mechanically cleaned fabric filter @ max. velocity of 4 ft/min or Air Cleaned fabric filter @ max. velocity of 7 ft/min.	Yes
Emissions from facility are not visible during abrasive cleaning.	Yes
Are all above checklist answers still yes for this operation?	
NOTES:	
Obtain information on filter velocity from Biometrics at 7-2675.	



Compliance manual for each shop specific to their operations

- List of units in each shop
- Compliance checklists for each unit
- Reporting requirements for each unit
- Duplicate manuals kept at Environmental



Compliance training

- Strengthens lines of communication between shops and Environmental Flight
- Compliance training documented



Update Air Quality Documents

- Air Quality Compliance Assessment Plan
- Air Permits
- Other documents as requested by Environmental Flight



Follow Through