	South Coast Air Quality Management District
	Form 400-E-4b
ß	Abrasive Blasting Equipment (Other Than Portable/Open)
st	This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A Form 400-CEOA and
D	This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section B - Equipment Description (Select ONLY one type of equipment)

Tel: (909) 396-3385 www.aqmd.gov

Various Locations

Section A - Operator Information

 $\Delta O M$

Facility Name (Business Name of Operator That Appears On Permit):

Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD):

Fixed Location

Address where the equipment will be operated (for equipment which will be moved to various location in AQMD's jurisdiction, please list the initial location site):

Abrasive Blasting Room Manufacturer: Model No.: Room Size: Length:______ft Width:______ft Height:_____ft Blasting Room Number of Air Port: Width: ft Dimensions of Air Ports: Length:_____ ft Capacity of Pot*:_____lb Equipped with man door? No Yes Exhaust Blower Flow Rate: Nozzles Number of Nozzles: Maximum Inner Diameter: (inches) Compressor Air Flow Rate:_____ Plant Air cfm @ psi Abrasive Blasting Machine Manufacturer: Model No.: Dimensions: Length:_____ft Width:_____ft Height:______ft **Blasting Machine** Wheel impeller Horsepower: Capacity of Pot^{*}:_____lb Exhaust Blower Flow Rate:_____ Material Flow Rate: **Abrasive Blasting Cabinet** Manufacturer: Model No.: **Blasting Cabinet** Dimensions: Length:_____ft Width:_____ft ft Height: Control: Number of Baffled Air Ports: Exhaust Blower Flow Rate: Nozzles Number of Nozzles: Maximum Inner Diameter: inches Compressor Plant Air Air Flow Rate: cfm @_ psi

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Section C - Process Description									
Blas	sting Type	Dry Blasting	Wet		% of time	Hydro-Blasting		% of time	
Abra	asive Used	Material Type: Material Name: Density:				Plastic Media			
Items 1	To Be Blasted	Description:					_		
Operat	ting Schedule							weeks/yr weeks/yr	
(Control	Is the room vented to an external air pollution control device? Yes No If Yes, a separate application (Form 400A and E-1) needs to be filed for the control equipment.							
Section	Section D - Authorization/Signature								
I hereby ce	ertify that all inform	nation contained herein	and information	submitted with	this application is	true and correct.			
	Signature:		Date	9:	Name:				
Preparer Info	Title:	Company Name:			Phone #:		Fax #:		
	-								
	Name:				Phone #:		Fax #:		
Contact Info	Title:	Co	mpany Name:		Email:				

THIS IS A PUBLIC DOCUMENT

Pursuant to the California Public Records Act, your permit application and any supplemental documentation are public records and may be disclosed to a third party. If you wish to claim certain limited information as exempt from disclosure because it qualifies as a trade secret, as defined in the District's Guidelines for Implementing the California Public Records Act, you must make such claim <u>at the time of submittal</u> to the District.

Check here if you claim that this form or its attachments contain confidential trade secret information.

South Coast Air Quality Management District

Worksheet For Form 400-E-4b

Abrasive Blasting Equipment ((Other Than Portable/Open)
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Abrasive Flow Rate (FR)											
FR1 = ID = ID1 = I_1 = I =	FR = FR1 x (ID/ID1) x វ/	í ¹ FR =x (in ² ÷	in ²) x (lb/ft ³ ÷	lb/ft ³) =					
Machine Emissions											
R1,PM = x		/200) = trolled PM Emissions (R1)		hrs/c Max Ib/day	day)=	lb/day					
R ₂ PM = R ₁ ,PM	x (198) = Contro	Iled PM Emissions (R2)	Max Ib/hr	Max Ib/day	_						
Room or Cabinet Emis	ssions										
R ₁ ,PM =		_ FR x 1- (trolled PM Emissions (R1)		lb/hr x (Max Ib/day	hrs/	day)=	Ib/day				
R ₂ PM = R ₁ ,PM	x (1-0.98) = Contro	Iled PM Emissions (R2)	Max Ib/hr	Max Ib/day							
Exhaust Gas Total Par	rticulate Concentra	ation (PC)									
	lb	PM/hr (Max) x 7,000 grains/lt)								
PC =		ft3/min x 60 min/hr	=_	grair	ns/dscf						
Room Cross Draft Vel	ocity (Vc)										
V _c = VFR/W x H =	CFM /	ft x	ft =	FPM							
Air Inlet Port Velocity	(Vi)										
Vi = VFR/W x L =	CFM /	ft ² =	FPM								
Cabinet Air Changes F	Per Minute (CAC)										
CAC = VFR/W x L x H =	CFM /		FPM								
Abrasive Blasting Cab	oinets										
ltem		Require		Actual	Compliance						
a. Air Changes Per Minute b. Baffled Air Inlet Ports		10-20 Yes			Yes Yes	No No					
Abrasive Blasting Room Guidelines Review											
ltem		Require	ed	Actual	Compliance						
a. Crossdraft/Downdraft Velocity											
Silica Type Abras		80			Yes	No					
Non-Silica Type /		50			Yes	No					
 b. Air Port Opposite Exhaust Due c. Indraft Velocity (FPM) 	CT	Yes 500			Yes Yes	No No					
c. mutait velocity (I FIVI)		500			100	140					

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