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TEXAS AIR CONTROL BOARD
EXEMPTION FROM PERMIT PROCEDURES
FORM PI-6

I. Company Name Consolidated Castings Corp.
(Corporation, Company, Government Agency, Firm, etc.)

Mailing Address 2425 Caroline St.

Individual authorized to act for applicant: Name Joe Duran Title Maint Mgr.

Address 4416 Boston dr. Plano, Tx 75075 Telephone 214 748 9051

II. LOCATION OF EXEMPT FACILITY (Latitude and Longitude must be to the nearest second):

Name of plant or site DALLAS Street Address (If available) 2425 Caroline

Nearest City DALLAS County DALLAS Latitude N 32°47'23" Longitude W96°48'25"

III. TYPE OF FACILITY

A. Applicable Exemption Number (From Exemption List) ? MOLD HEATING FURNACE

B. Name of Facility Plant #1

C. Applicant's Facility Identification Number D-0201-M

D. Operating Schedule: Hours/day 16 Days/week 5 Weeks/year 51

E. Proposed start of operation: immediately (Date)

IV. PROCESS INFORMATION

Description of Process: A. Prepare and attach a written description of the exempt process. The description must be in sufficient detail to indicate the facility will conform to the specified exemption.
B. Furnish an area map showing the facility location including roads to remote sites.

V. EMISSIONS DATA A. Furnish a description of the basis for emission rates including fugitives. (Calculations, emission factors, measurement, NSPS, etc.)

Emission Point Number	Name of Source	Name of Air Contaminant	Emission Rate of Each Air Contaminant			
			lb/hr		tons/yr	
			Gaseous	Particulate	Gaseous	Particulate
1	Furnace	Natural Gas Combustion remnants	NIL		NIL	
2	Furnace	"	"		"	
3	"	"	"		"	

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VI. I, Joe Duran (Name) Maintenance Manager (Title)

state that I have knowledge of the facts herein set forth and that the same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption. The facility will operate in compliance with all Regulations of the Texas Air Control Board and with Federal Environmental Protection Agency Regulations governing air pollution.

DATE 5-4-82 SIGNATURE Joe Duran

TABLE 1
EMISSION SOURCES

List all sources, including this application, of air contaminants on applicant's property. If applicant has submitted this information in an earlier emission inventory, it will not be necessary to duplicate the requested information. Instead, indicate that this page has been submitted and list only changes from the emission inventory and list new source data.

	ALL SOURCES				STACKS ONLY					
	EMISSION POINT NUMBER from plot plan	LIST POLLUTANT EMISSIONS (CHEMICAL COMPOSITION) & WT. OF EACH	FLOW RATE OF EACH LISTED EMISSION		EMISSION POINT NUMBER from plot plan	STACK HEIGHT ABOVE GROUND (ft.)	STACK INTERNAL DIAMETER AT EXIT (ft.)	TEMP. DEG. (F)	VELOCITY (FT/SEC)	MOIS. %
			GASEOUS	PARTICULATE						
Add →	6	Normal Natural Gas Combustion Emmissions	10,500,000 cu/hr	N/A						
	7	SAME	SAME	—						
	8									
Remove →		Furnaces # 1,3,4 & 5								
		from same area they have								
		been replaced by above.								
		# 2 & 6 are still in operation								

ENCLOSE THE FOLLOWING INFORMATION:

1. EMISSIONS OTHER THAN THROUGH STACKS (HORIZONTAL VENTS, ETC.)
2. STACK'S HEIGHT ABOVE SUPPORTING OR ADJACENT STRUCTURES.
3. DIMENSIONS OF NON-CIRCULAR STACKS.
4. RESULTS OF TESTS INDICATING AVERAGE PARTICLE SIZE, DENSITY, ETC.

TABLE 21
FURNACE DATA SHEET

Number from flow diagram: 6 + 7 + 8	Furnace Type
Furnace Manufacturer: Thermal Equipt.	___ Electric ___ Arc
Model Number: 8101	___ Reverberatory ___ Channel
Size (Dimensions): 84" W, 10' L x2, 10' H; 60" W, 10' L x1, 8' H	___ Crucible ___ Coreless
	___ Pot ___
	___ Annealing or HT ___ Cupola
	✓ Reheat ___ Retort
	___ Blast ___ Other

FURNACE OPERATION

Metal Type Melted	None	Type Heat Additives	None
Melting Capacity (tons/hr.)	N/A	Qty. of Heat Additives	—
Holding Capacity (tons)	N/A	Pouring Temp. (°F)	—
Charge Makeup	N/A	x 3 Afterburner (BTU/hr.)	907,000 BTU/hr
		Ductile Iron Prod. (tons/hr.)	N/A
Charging Method		Method Temp. Control	Elect. Controller
Oxygen Injection	N/A	Tuyere Air (SCFM*)	None

CHARACTERISTICS OF FUEL INPUT

Fuel Type	Chemical Composition (% by Weight)	Inlet Air Temp. °F	Fuel Flow Rate (SCFM* or lb/hr.)	
Natural Gas	Natural Gas	Ambient	Average x3 750,000 cu'/hr	Design Max. 1,400,000 BTU/hr
		Total Air Supplied (SCFM*)	Gross Heating Value of Fuel (specify units)	
		10,500,000 cu'/hr. x3	1000 BTU/cu'	

CHARACTERISTICS OF STACK OUTPUT

Material Emitted	Chemical Composition and Rate of Release
Combustion Remains	Standard Products

STACK PARAMETERS

Stack Diameter	Stack Height	Temp. °F	Velocity	Moisture %
18"	20'	1600°F	?	normal moister

Also supply an assembly drawing, dimensions, and to scale, in as many sections as are needed to show clearly the operation of the furnace.

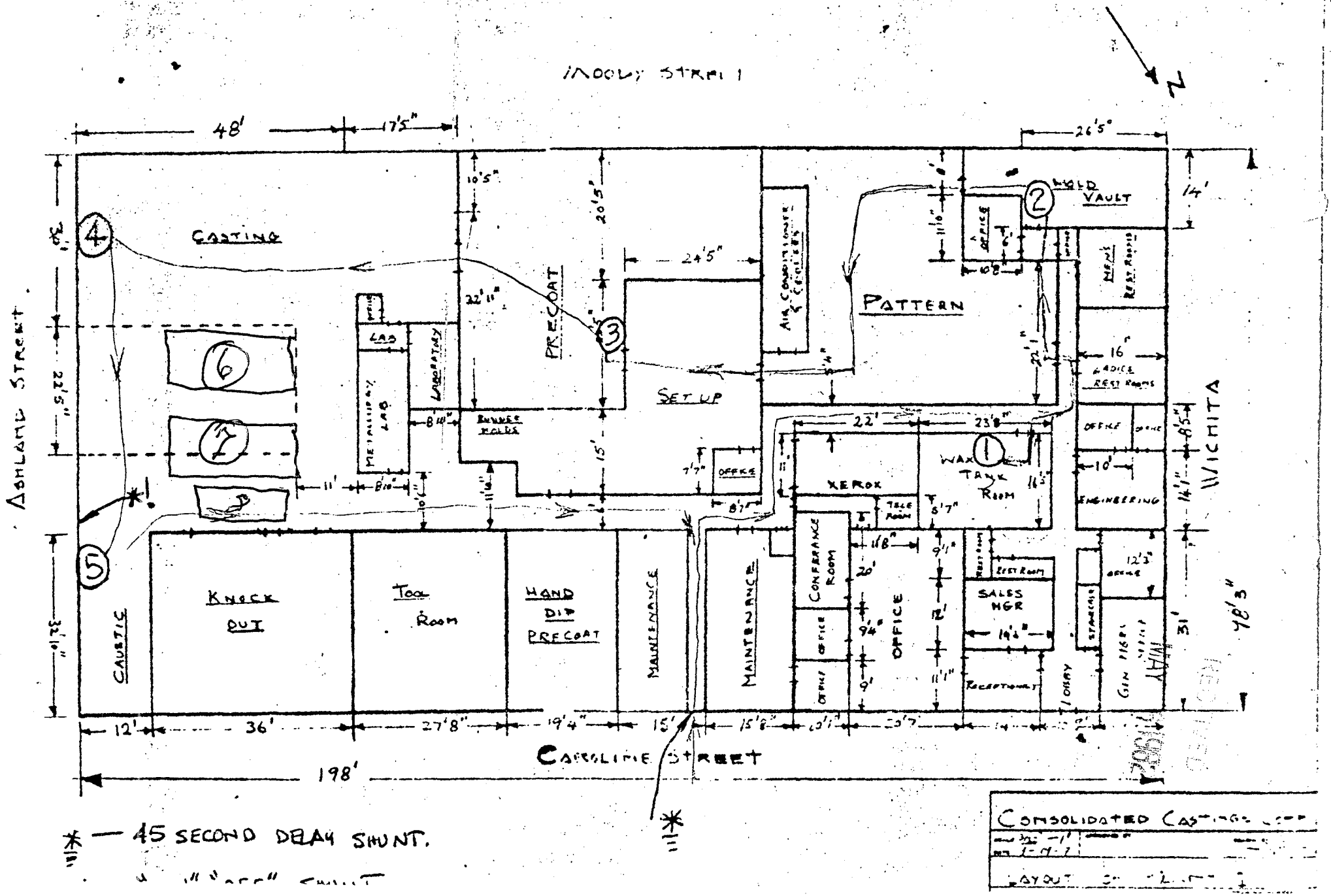
*STANDARD CONDITIONS: 70°F, 14.7 PSIA

TABLE 2

MATERIAL BALANCE

This material balance table is used to quantify possible emissions of air contaminants and special emphasis should be placed on potential air contaminants, for example: If feed contains sulfur, show distribution to all products. Please relate each material (or group of materials) listed to its respective location in the process flow diagram by assigning point numbers (taken from the flow diagram) to each material.

LIST EVERY MATERIAL INVOLVED IN EACH OF THE FOLLOWING GROUPS	Point No. from Flow Diagram	Process Rate (lbs/hr or SCFM) standard conditions: 70°F 14.7 PSIA. Check appropriate column at right for each process.	Measurement	Estimation	Calculation
1. Raw Materials - Input ~~Natural Gas~~ Ceramic shells	6+7+8	N/A	✓	N/A	
2. Fuels - Input Natural Gas.	6+7+8	N/A	✓	N/A	
3. Products & By-Products - Output none					
4. Solid Wastes - Output None					
5. Liquid Wastes - Output None					
6. Airborne Waste (Solid) - Output None					
7. Airborne Wastes (Gaseous) - Output Normal Natural Gas Combustion Waste		10,500,000 cu'/hr X 3		✓	


MOODY STREET
N
48'
17'5"
26'5"
CASTING
PRECOAT
SET UP
AIR CONDITIONER & COOLERS
PATTERN
MOLD VAULT
MEN'S REST ROOMS
LADIES REST ROOMS
OFFICE
ENGINEERING
WAX TANK ROOM
XEROX
TELE ROOM
CONFERENCE ROOM
OFFICE
SALES MGR
RECEPTIONIST
STAIRCASE
GEN FIGRL
LAB
METALLURGY LAB
LABORATORY
BURNER ROOM
KNOCK OUT
TOOL ROOM
HAND DIP PRECOAT
MAINTENANCE
CAUSTIC
ASHLAND STREET
WICHITA HIGHWAY
CAROLINE STREET
198'
48'3"
14'
31'
32'10"
22'5"
30'
12'
36'
27'8"
19'4"
15'
15'8"
14'
45 SECOND DELAY SHUNT.
CONSOLIDATED CASTINGS
LAYOUT