Note: This is a reference cited in *AP 42, Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources.* AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	FACILITY SIZE	FUEL	PERMIT DATE	NOX PRIMARY PERMIT LIMIT
AK-0019	GREENS CREEK MINING CO.	2300 KW	DIESEL	09/10/87	1075 PPMVD AT 15% O2
CA-0101	SANTA CRUZ COGENERATION ASSOC.	3656 BHP	DIESEL	07/23/84	3.7 G/HP-H
CA-0101	SANTA CRUZ COGENERATION ASSOC.	3656 BHP	DIESEL	07/23/84	715 LB/D
KERN	PACIFIC ENERGY RESOURCES, INC.	2650 HP	LANDFILL GAS	11/14/84	1.5 G/HP HR
CA-0103	PACIFIC LIGHTING ENERGY SYSTEMS	2000 BHP	LANDFILL GAS	01/28/85	1.5 G/HP-H
CA-0103	PACIFIC LIGHTING ENERGY	2650 HP	LANDFILL GAS	03/01/85	1.5 G/HP-H
CA-0171	SF SOUTHEAST TREATMENT PLANT	5.2 MW	SEWAGE-SLUDGE GAS	05/01/85	2 G/BHP-H
CA-0151	GENSTAR GAS RECOVERY SYSTEMS	1100 HP		08/29/85	1.5 G/HP-H
CA-0151	GENSTAR GAS RECOVERY SYSTEMS	2650 HP		08/29/85	1.5 G/HP-H
SAN DIEGO	CUMMINS POWER GEN/LAJET ENERGY CO.	1365 HP		07/17/86	5.4 GRAMS/BHP HR
CA-0286	LAJET ENERGY CO.	1365 HP		07/17/86	369 LB/D
CA-0191	TRICOUNTY SUN ENERGY SHERATON HOTEL	7750 BTU/HP-H		08/07/86	50 PPMVD AT 15% O2
CA-0175	POPPY RIDGE PARTNERS	0.54 MMCF/D	DIGESTER GAS	09/16/86	2 G/HP-H
CA-0209	GSF ENERGY, INC.	8775 BHP		11/13/86	245 LB/D
CA-0190	CITY OF VENTURA WASTEWATER TREATMENT PLANT	773 BHP	DIGESTER GAS	12/31/86	2 GR/BHP-H
SANTA BARBARA	EXXON CO. USA SANTA YNEZ UNIT EXPANSION		DIESEL	11/19/87	
FL-0025	SEBRING UTILITIES COMMISSION	19.53 MW EA	DIESEL	04/03/81	819 PPMV
FL-0041	PW VENTURES	8800 HP	DUAL	05/12/88	5 G/HP-H DUAL FUEL
FL-0040	KEY WEST ELECTRIC SYSTEM	13266 HP	DIESEL	06/05/89	6 G/HP-H
HI-0002	HAWAIIAN ELECTRIC	3950 BHP	OIL	05/08/84	1158 PPM AT 15% O2
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	2.5 MW	OIL	11/17/87	600 PPM, DRY AT 15% O2
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	2.5 MW	OIL	11/17/87	600 PPM, DRY AT 15% O2
HI-0003	MAUI ELECTRIC CO., INC	2.5 MW	OIL	11/17/87	600 PPM, DRY AT 15% O2
HI-0005	MAUI PINEAPPLE CO., LTD.	3020 BHP	DIESEL	05/17/88	520 PPM DRY AT 15% O2
HI-0005	MAUI PINEAPPLE CO., LTD.	2010 BHP	DIESEL	05/17/88	536 PPM DRY AT 15% O2

Source: EPA-600/2-91-029 NOx Control Technology Data CTC 3.4

TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	NOX SECONDARY PERMIT LIMIT	NOX CONTROL
AK-0019	GREENS CREEK MINING CO.		
CA-0101	SANTA CRUZ COGENERATION ASSOC.	29.8 LB/H	ENGINE DESIGN
CA-0101	SANTA CRUZ COGENERATION ASSOC.		ENGINE DESIGN
KERN	PACIFIC ENERGY RESOURCES, INC.		CLEAN BURNING OPERATION
CA-0103	PACIFIC LIGHTING ENERGY SYSTEMS	6.25 LB/H	ENGINE DESIGN, CLEAN BURN
CA-0103	PACIFIC LIGHTING ENERGY		PRECHAMBER IGNIT
CA-0171	SF SOUTHEAST TREATMENT PLANT		CLEAN BURN ENGINE
CA-0151	GENSTAR GAS RECOVERY SYSTEMS		LEAN-BURN COMBUSTION
CA-0151	GENSTAR GAS RECOVERY SYSTEMS		LEAN-BURN COMBUSTION
SAN DIEGO	CUMMINS POWER GEN/LAJET ENERGY CO.		ENGINE DESIGN/WATER INJECTION
CA-0286	LAJET ENERGY CO.	5.4 G/BHP-H	H2O INJ., ENGINE DESIGN
CA-0191	TRICOUNTY SUN ENERGY SHERATON HOTEL		NONSELECTIVE CATALYST
CA-0175	POPPY RIDGE PARTNERS		PRE-STRATIFIED CHARGE EMIS CONTROL SYS.
CA-0209	GSF ENERGY, INC.	0.8 G/BHP-H	CLEAN BURN ENGINE
CA-0190	CITY OF VENTURA WASTEWATER TREATMENT PLANT		ENGINE DESIGN
SANTA BARBARA	EXXON CO. USA SANTA YNEZ UNIT EXPANSION		INJ. TIMING RETARD
FL-0025	SEBRING UTILITIES COMMISSION		COMBUSTION CONTROL
FL-0041	PW VENTURES	12.1 G/HP-H DIESEL FIRING	
FL-0040	KEY WEST ELECTRIC SYSTEM		TIMING RETARDATION
HI-0002	HAWAIIAN ELECTRIC		INJ. TIMING RETARD 4 DEG
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	68.4 LB/H, 3H AVG	4 DEG IGNITION RETARD
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	68.4 LB/H, 3H AVG	4 DEG IGNITION RETARD
HI-0003	MAUI ELECTRIC CO., INC	68.4 LB/H 3H AVG	4 DEG IGNITION RETARD
HI-0005	MAUI PINEAPPLE CO., LTD.	35 LB/H, 3H AVG, 0.1% S MAX IN FUEL OIL	2 DEG IGNITION RETARD
HI-0005	MAUI PINEAPPLE CO., LTD.	23 LB/H, 3H AVG, 0.1% S MAX IN FUEL OIL	2 DEG IGNITION RETARD

TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	NOX CONTROL EFFICIENCY	STATE CONTACT NAME	PHONE NUMBER
AK-0019	GREENS CREEK MINING CO.		JON SANDSTEDT	(907)-465-2666
CA-0101	SANTA CRUZ COGENERATION ASSOC.		B. NISHIMURA	(408)-~~443-1135~~
CA-0101	SANTA CRUZ COGENERATION ASSOC.		B. NISHIMURA	(408)-~~443-1135~~
KERN	PACIFIC ENERGY RESOURCES, INC.	60	TUAN NGO	(805)-861-3682
CA-0103	PACIFIC LIGHTING ENERGY SYSTEMS		FRED THOITS	(408)-443-1135
CA-0103	PACIFIC LIGHTING ENERGY		CRAIG ULLERY	(415)-771-6000
CA-0171	SF SOUTHEAST TREATMENT PLANT		STEVE HILL	(415)-771-6000
CA-0151	GENSTAR GAS RECOVERY SYSTEMS		CRAIG ULLERY	(415)-771-6000
CA-0151	GENSTAR GAS RECOVERY SYSTEMS		CRAIG ULLERY	(415)-771-6000
SAN DIEGO	CUMMINS POWER GEN/LAJET ENERGY CO.		CRAIG ANDERSON	(619)-694-3318
CA-0286	LAJET ENERGY CO.		CRAIG ANDERSON	(619)-694-3318
CA-0191	TRICOUNTY SUN ENERGY SHERATON HOTEL	90	KEITH DUVAL	(805)-654-2845
CA-0175	POPPY RIDGE PARTNERS		A. KENNARD	(916)-366-2107
CA-0209	GSF ENERGY, INC.		TED KOWALCZYK	(818)-572-6186
CA-0190	CITY OF VENTURA WASTEWATER TREATMENT PLANT		KEITH DUVAL	(805)-654-2845
SANTA BARBARA	EXXON CO. USA SANTA YNEZ UNIT EXPANSION		SANJIB MUKHERJI	(~~805)-964-8111~~
FL-0025	SEBRING UTILITIES COMMISSION		ED PALAGYI	(904)-488-1344
FL-0041	PW VENTURES		BARRY ANDREWS	(904)-488-1344
FL-0040	KEY WEST ELECTRIC SYSTEM		BARRY ANDREWS	(904)-488-1344
HI-0002	HAWAIIAN ELECTRIC	20	JIM HANSON	(415)-974-8218
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	20	NOLAN HIRAI	(808)-548-6410
HI-0002	HAWAII ELECTRIC LIGHT CO., INC.	20	NOLAN HIRAI	(808)-548-6410
HI-0003	MAUI ELECTRIC CO., INC	20	WILFRED NAGAMINE	(808)-543-8200
HI-0005	MAUI PINEAPPLE CO., LTD.	18	TYLER SUGIHARA	(808)-543-8200
HI-0005	MAUI PINEAPPLE CO., LTD.	18	TYLER SUGIHARA	(808)-543-8200

(408) 647-9411

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TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	FACILITY SIZE	FUEL	PERMIT DATE	NOX PRIMARY PERMIT LIMIT
HI-0007	CITIZENS UTILITIES CO.	7.86 MW	DIESEL	09/19/89	590 PPM, DRY AT 15% O2,FULL LOAD
HI-0007	CITIZENS UTILITIES CO.	7.86 MW	DIESEL	09/19/89	667 PPM, DRY AT 15% O2,50-74.99% LOAD
HI-0008	MAUI ELECTRIC CO., LTD.	12.5 MW	OIL	12/30/89	595 PPM DRY AT 15% O2
KS-0004	CITY OF OTTAWA	6000 KW EA	DUAL FUEL	12/02/80	1150 PPM 15% O2 (D)
KS-0007	CITY OF AUGUSTA	6000 KW	DUAL FUEL	05/29/81	1150 PPM 15% O2 (D)
KS-0014	CITY OF BELOIT	6000 KW		05/26/82	1150 PPMV 15% O2, DRY BASIS
KS-0017	CITY OF KINGMAN	3495 HP	DUAL FUEL	03/01/83	1150 PPMV, 15% O2, DRY
MA-	PFIZER CHEMICAL COMPANY	3710 HP		07/13/87	40 T/YR
NJ-0002	TRENTON DISTRICT ENERGY CO.	6 MKW EA	DIESEL	07/08/80	1869 T/YR
NJ-0003	HOFFMANN-LAROCHE, INC.	23.3 MKW	DIESEL	08/17/81	2272 T/YR
OH-0157	COGENERATION PARTNERS OF AMERICA	9.62 MMBTU/H		04/06/88	0.68 LB/MMBTU
RI-0005	NORTHEAST LANDFILL POWER	2400 BHP	LANDFILL GAS	12/12/89	1.25 G/BHP-H
TX-0030	SHELL OIL CO.	1215 HP	FUEL GAS	03/27/81	10 G/HP-H
TX-0113	ORGANIC FUEL PRODUCTION, INC.	4.2 MMCF/YR	DIGESTER GAS	02/16/83	0.21 T/YR
TX-0189	3M	8386 BHP	DUAL FUEL	05/30/86	889 T/YR
UT-0036	LENT COGENERATION ASSOCIATES	16950 KW	DUAL FUEL	10/22/87	249.87 T/YR

TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	NOX SECONDARY PERMIT LIMIT	NOX CONTROL
HI-0007	CITIZENS UTILITIES CO.	605 PPM DRY AT 15% O2, 75-99.99% LOAD	
HI-0007	CITIZENS UTILITIES CO.	342.78 LB/H, 3H AVG	
HI-0008	MAUI ELECTRIC CO., LTD.	256.1 LB/H, 3H AVG	5 DEGREE IGNITION RETARD
KS-0004	CITY OF OTTAWA		
KS-0007	CITY OF AUGUSTA		
KS-0014	CITY OF BELOIT		
KS-0017	CITY OF KINGMAN		EFFICIENT OPERATION OF THE UNIT
MA-	PFIZER CHEMICAL COMPANY		SCR
NJ-0002	TRENTON DISTRICT ENERGY CO.		USE OF MANUFACT. ENG. MOD.
NJ-0003	HOFFMANN-LAROCHE, INC.		RETARD. FUEL INJ. TIMING
OH-0157	COGENERATION PARTNERS OF AMERICA	5.92 LB/H	CLEAN BURN TECHNOLOGY
RI-0005	NORTHEAST LANDFILL POWER		LEAN BURN
TX-0030	SHELL OIL CO.		DERATED OLD ENGINES
TX-0113	ORGANIC FUEL PRODUCTION, INC.		
TX-0189	3M		ENGINE REDESIGNED TO CONTROL NOX
UT-0036	LEHT COGENERATION ASSOCIATES		

TABLE B-2. STATIONARY IC ENGINES (EXCLUDING GAS-FIRED UNITS)

FACILITY ID	COMPANY NAME	NOX CONTROL EFFICIENCY	STATE CONTACT NAME	PHONE NUMBER
HI-0007	CITIZENS UTILITIES CO.	18.6	TYLER SUGIHARA	(808)-543-8200
HI-0007	CITIZENS UTILITIES CO.	18.6	TYLER SUGIHARA	(808)-543-8200
HI-0008	MAUI ELECTRIC CO., LTD.	20	WILFRED NAGAMINE	(808)-543-8200
KS-0004	CITY OF OTTAWA		CHARLES WHITMORE	(913)-551-7020
KS-0007	CITY OF AUGUSTA		CHARLES WHITMORE	(913)-551-7020
KS-0014	CITY OF BELOIT		CHARLES WHITMORE	(913)-551-7020
KS-0017	CITY OF KINGMAN		CHARLES WHITMORE	(913)-551-7020
MA-	PFIZER CHEMICAL COMPANY	90	JOHN MATTESON	(413)-784-1100
NJ-0002	TRENTON DISTRICT ENERGY CO.		LARRY KARAS	(212)-264-9538
NJ-0003	HOFFMANN-LAROCHE, INC.		LARRY KARAS	(212)-264-9538
OH-0157	COGENERATION PARTNERS OF AMERICA		DALE KRYGIELSKI	(419)-693-0350
RI-0005	NORTHEAST LANDFILL POWER		DOUG MCVAY	(401)-277-2808
TX-0030	SHELL OIL CO.		BILL TAYLOR	(214)-767-1594
TX-0113	ORGANIC FUEL PRODUCTION, INC.		GARY WALLIN	(512)-451-5711
TX-0189	3M		RANDY HAMILTON	(512)-451-5711
UT-0036	LENT COGENERATION ASSOCIATES		DAVE KOPTA	(801)-~~538-6108~~ → 536-4000

ENGINE MANUFACTURER LISTING

Company	Contact Name	Phone No.
Catepillar, Inc. 100 NE Adams St. Peoria, IL 61629-6480	Don Dowdall	309-675-5362
Cooper Bessemer 150 Lincoln Ave. Grove City, PA 16127	Joe Taucher	412-458-8000 Ext. 4124
Cooper Ajax/Superior Division Springfileld, OH	Bruce Chrismann	513-327-4200
Cummins Engine Company, Inc. P.O. Box 3005 Columbus, IN 47202	Hugh Daugherty	812-377-3263
Fairbanks Morse Engine Divis 701 Lawton Ave. Beloit, WI 53511	Paul Danyluk	608-364-8228
Waukesha 1000-T St. Paul Ave. Waukesha, WI 53188	Paul Cannestra	414-547-3311

EPA-600/2-91-029
July 1991

SOURCEBOOK:

NO_X CONTROL TECHNOLOGY DATA

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EPA Contract No. 68-02-4286
Work Assignment Nos. 92, 102, and 117

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Research Triangle Park, North Carolina 27711

SOURCEBOOK:

NO_X CONTROL TECHNOLOGY DATA

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