

South Coast AQMD
Proposed Rule 1147.2 – Working Group Meeting #4
Sub-30 ppm Source Test Results

Metal Heating Furnaces

Equipment Category	Heat Input (MMBTU/HR)	Process Temperature (°F)	Control Technology	Permit Limit (ppm)	Source Test Result (ppm)	Notes
Aging	3	340 - 420	Not Listed	50	5	None
Aging	4	350	Not Listed	12	12	None
Aging	5	680 - 900	LNB	30	13	None
Aging	3	680 - 900	LNB	30	14	None
Aging	3	680 - 900	LNB	65	16	None
Aging	4	875 - 1,000	LNB	60	22	None
Aging	3	680 - 900	Not Listed	40	25	None
Aging	3	680 - 900	Not Listed	40	26	None
Aging	8	1,000	LNB	50	29	Startup Load: 29 ppm; Normal Load: 28 ppm
Annealing	2	1,220 - 1,400	Not Listed	60	20	None
Annealing	12	Not Listed	Not Listed	75	26	None
Billet & Pre-Heat	5	680 - 950	FGR; LNB	30	15	None
Billet & Pre-Heat	5	900	ULNB	50	11	High Fire: 11 ppm; Normal: 9 ppm; Low Fire: 11 ppm
Billet & Pre-Heat	5	680 - 900	FGR; LNB	30	13	None
Billet & Pre-Heat	5	680 - 950	Not Listed	25	16	None
Billet & Pre-Heat	7	900	Not Listed	50	19	None
Billet & Pre-Heat	3	880 - 1,000	LNB	50	25	None
Billet & Pre-Heat	12	Not Listed	Not Listed	40	25	None
Billet & Pre-Heat	3	800 - 850	LNB	50	25	None
Billet & Pre-Heat	5	Not Listed	Not Listed	50	27	None
Billet & Pre-Heat	4	900	LNB	30	28	None
Billet & Pre-Heat	7	680 - 950	FGR; LNB	30	29	None
Forging & Drop Forge	5	800 - 900	LNB	50	7	None
Forging & Drop Forge	6	1,600 - 2,200	LNB	50	7	None
Forging & Drop Forge	6	1,600 - 2,200	LNB	50	7	None
Forging & Drop Forge	5	800 - 900	LNB	50	10	None
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	10	None
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	11	Bleed Setting: 11 ppm; Ratio Setting: 5 ppm
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	12	None
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	14	Bleed Setting: 12 ppm; Ratio Setting: 14 ppm
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	15	Bleed Setting: 15 ppm; Ratio Setting: 9 ppm
Forging & Drop Forge	5	1,900 - 2,400	Not Listed	50	18	None
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	19	None
Forging & Drop Forge	6	1,600 - 2,200	LNB	50	23	Bleed Setting: 23 ppm; Ratio Setting: 20 ppm
Forging & Drop Forge	4	1,900 - 2,150	FGR; LNB; Recuperator	50	21	None

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Forging & Drop Forge	4	1,900 - 2,150	LNB; FGR; Recuperator	50	21	None
Forging & Drop Forge	6	1,900 - 2,400	Not Listed	50	23	None
Forging & Drop Forge	6	1,600 - 2,200	LNB	50	23	Bleed Setting: 23 ppm; Ratio Setting: 19 ppm
Forging & Drop Forge	8	2,300	LNB	50	25	None
Forging & Drop Forge	3	1,600 - 2,200	LNB	50	27	Bleed Setting: 27 ppm; Ratio Setting: 21 ppm
Forging & Drop Forge	6	1,600 - 2,200	LNB	50	27	Bleed Setting: 27 ppm; Ratio Setting: 25 ppm
Forging & Drop Forge	3	1,900 - 2,150	FGR; Recuperator	50	29	None
Homogenizing	12	843	Not Listed	45	13	None
Homogenizing	12	843	Not Listed	45	16	None
Homogenizing	24	1,000 - 1,100	LNB	40	19	None
Homogenizing	12	843	Not Listed	45	22	None
Homogenizing	12	843	Not Listed	45	26	None
Homogenizing	12	843	Not Listed	45	27	None
Re-Heat	529	1,030	LNB; Regenerative Burners; SCR	50	25	None
Other	5	1,725 - 2,150	Not Listed	50	15	None
Other	3	Not Listed	LNB	50	19	None
Other	5	970	LNB	25	21	None
Other	3	Not Listed	LNB	50	21	None
Other	7	1,700 - 2,150	LNB	50	26	None
Other	6	1,000	Not Listed	102	30	None

Note: All NOx concentrations are corrected to 3% O2, dry

Control Technology Key

FGR: Flue Gas Recirculation; LNB: Low-NOx Burner; SCR: Selective Catalytic Reduction; ULNB: Ultra-Low NOx Burner

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Metal Melting Furnaces						
Equipment Category	Heat Input (MMBtu/hr)	Process Temperature (°F)	Control Technology	Permit Limit (ppm)	Source Test Result (ppm)	Notes
Kettle & Pot	0.30	787	Not Listed	60	13	None
Reverberatory	25	1,221	LNB	40	25	None
Reverberatory	20	1,221	LNB	45	21	None
Reverberatory	20	1,221	LNB	45	23	None
Control Technology Key						
LNB: Low-NOx Burner						