

ATTACHMENT A

BBFP-50047.G

190,94

June 2, 1986

Mr. Mike Benoit
Cadence Chemical Resources
Box 770
Michigan City, IN 46360

Dear Mr. Benoit:

Campbell & Pryor Associates, Inc. has been instructed to complete a study of the Blast Furnace Gas Utilization by most United States iron making blast furnaces still in operation.

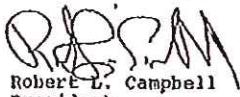
Seven companies and eighteen facilities were surveyed with 100 percent responding. An unweighted average utilization by process is summarized below:

PROCESS UTILIZATION

Stoves	41.33%
Boilers	52.20%
Underfiring coke ovens	2.03%
Reheating furnaces/ soaking pits	1.16%
Internal combustion engines	.25%
Bleeding/flaring	3.03%

Also, by your instruction original findings of this survey have been sent to Mr. Robert Holloway of United States EPA and copies have also been sent to participating companies in appreciation of their participation in this study furnished by Campbell & Pryor, Indianapolis, Indiana.

Yours very truly,


Robert E. Campbell
President

RLC:hg

cct: Ted Reese

Campbell & Pryor Associates, Inc./Professional Management Consultants
Suite D, Lake Shore Bank Building/Michigan City, IN 46360/219/672-0091

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STUDY OF UNITED STATES IRON MAKING BLAST FURNACE GAS UTILIZATION

Current Percentage by Location:

COMPANY	LOCATION/	PERCENT USED IN SUSPENSION FURNACES	PERCENT USED IN BOTTLES	PERCENT USED IN UNDER- FIREING COKE OVENS	PERCENT USED IN SOAKING PITS OR REFINING FURNACES	PERCENT USED IN INTERNAL COMBUSTION ENGINES	PERCENT USED IN BLAST FURNACES OR FLARING	TOTAL
ARCO	P.O. Box 191 Athlone, PA 41105 Tel. Scottie (609) 829-5002	21.5%	47.5%					100%
	P.O. Box 500 McKeesport, PA 45013 Tel. Searcy (513) 225-6215	30.0%	31.2%	3				100%
BETHLEHEM STEEL	Corporate Offices Bethlehem, PA 18016 Jlm 20th & Main (215) 691-6110	25.0%	54.5%	20				100%
	Plant: P.O. Box 248 Chesterton, IN 46504 (219) 781-3756	33.0%	55.0%	3				100%
	Plant: Spartans 212, Mo 22299, Rte. Annex Spartans 212							

100% - IRONMAKING GAS

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June 2, 1986

Mr. Robert Holloway
Waste Combustion Program
Waste Management &
Economic Division
Office of Solid Waste
WH-565A
U.S. EPA
401 M Street S. W.
Washington D.C. 20460

Campbell & Pryor Associates, Inc. has been instructed to conduct a study of the Blast Furnace Gas Utilization by United States iron making blast furnaces still in operation.

Seven companies and eighteen facilities were surveyed with the results responding. An unweighted average utilization by process is summarized below:

PROCESS UTILIZATION

Stoves	41.0%
Boilers	52.0%
Underfiring coke ovens	27.0%
Reheating furnaces	1.0%
Soaking pits	1.0%
Internal combustion engines	1.0%
Bleeding air lines	3.0%

Copies have been forwarded to the following companies for review. A copy of their participation in the study will be furnished by the end of the month indicated.

Yours very truly,



Mr. Robert Holloway

Waste Combustion Program

Office of Solid Waste

U.S. Environmental Protection Agency

401 M Street S.W.

Washington, D.C. 20460

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NO INFORMATION SVC DIVISION SERIALIZED AND INDEXED
BY LETTERS OR BY SUBJECTS

(Entered by Letter)

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STATION	CONTROLS TO SUBSYSTEM	SENDING TO REQUESTOR AT GSCN	SENDING CREAMER TO SATELLITE AND CROPS AT GSCN	RECEIVED FROM GSCN	SENDING NOTICE TO GSCN	SENDING FROM GSCN AT GSCN	RECEIVED FROM GSCN
2007	20-5				20-01	20-55	20-01
2001	20-5				20-01	20-55	20-01
2007	20-5				20-01	20-55	20-01
2007	20-5				20-01	20-55	20-01
2007	20-5				20-01	20-55	20-01
2007	20-5				20-01	20-55	20-01