Ash Production Ash Utilization - 1983

	(Million Tons)
I. ANNUAL COAL CONSUMPTION	600.12
II. TOTAL ASH PRODUCED	70.29
III. ASH UTILIZED	12.81

	FLY ASH	BOTTOM ASH	BOILER SLAG
1. EXTERNAL UTILIZATION			
a. Cement and concrete products	3.62	.43	.32
b. Structural fills	.60	.25	.23
c. Road base	.24	.25	.06
d. Filler in asphalt mix	.09	.006	.008
e. Snow and ice control	.0001	.42	.23
f. Blasting grit and roofing granules	—0—	—0—	1.56
g. Grouting	.17	—0—	—0—
h. Coal and mining applications	.16	—0—	.01
i. Miscellaneous	.26	.06	.01
TOTAL EXTERNAL UTILIZATION	**5.14**	**1.42**	**2.43**
2. INTERNAL UTILIZATION			
a. Cement and concrete products	.002	—0—	—0—
b. Structural fills	.79	.86	.05
c. Road base	.29	.09	.002
d. Miscellaneous	1.30	.39	.05
TOTAL INTERNAL UTILIZATION	**2.38**	**1.34**	**.102**
3. TOTAL ASH UTILIZED	**7.52**	**2.76**	**2.53**
4. ASH REMOVED TO DISPOSAL AREA AT COMPANY EXPENSE WITH NO UTILIZATION	44.83	11.24	1.41
5. TOTAL ASH PRODUCED	**52.35**	**14.0**	**3.94**

Comparative Results

	1966*	1978	1979	1980	1981	1982	1983
Ash Produced							
Fly Ash	17.1	48.3	57.5	48.31	50.26	47.91	52.35
Bottom Ash	8.1	14.7	12.5	14.45	12.87	13.13	14.0
Boiler Slag	—0—	5.1	5.2	3.64	5.18	4.37	3.94
TOTAL ASH PRODUCED	**25.2**	**68.1**	**75.2**	**66.40**	**68.31**	**65.41**	**70.29**
Ash Utilized							
Fly Ash	1.4	8.4	10.0	6.42	9.41	7.95	7.52
Bottom Ash	1.7	5.0	3.3	4.26	4.07	3.63	2.76
Boiler Slag	—0—	3.0	2.4	1.75	2.93	1.97	2.53
TOTAL ASH UTILIZED	**3.1**	**16.4**	**15.7**	**12.43**	**16.41**	**13.55**	**12.81**
Percent of Ash Utilized							
% Fly Ash	7.9	17.4	17.4	13.3	19.0	16.6	14.3
% Bottom Ash	21.0	34.0	26.4	29.5	32.0	27.6	19.7
% Boiler Slag	—0—	58.8	46.0	48.1	57.0	45.1	64.2
PERCENT OF TOTAL ASH UTILIZED	**12.1**	**24.1**	**21.0**	**18.7**	**24.0**	**20.7**	**18.2**

**First year that data was taken

**1967 - 1977 data omitted from tabulation because of space limitation.

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