TABLE I

ALLOWABLE OPACITY LIMITATIONS

Stack #	Description	Grain Loading	OPACITY
Emission Unit 1: Raw Material Handling & Unloading Process Rate = 4,467,600 TPY Dry Feed			
Fugitive	Material Processing		10
Fugitive	Handling and Unloading		10
Fugitive	Below- Water Crusher		15
Emission Unit 2: Raw Mill System Process Rate = 255 TPH Recycle Dust plus Raw Meal (peak)			
E-28	Recycle dust + raw meal to Homogenization silo	0.01 gr/dscf	5
G-07	Recycle dust + raw meal to homogenization silo	0.01 gr/dscf	5
H-08	Raw meal + recycle dust to preheater	0.01 gr/dscf	5
Emission Unit 3: Kiln System Process Rate = 364 MMBTU/hr heat input			
E-21	Kiln Operations (ESP)		10
E-21	In-process fuel: coal		10
E-21	In-process fuel: petroleum coke		10
E-21	In-process fuel: fly ash		10
E-21	In-process fuel: natural gas		
E-21	In-process fuel: tires		10
	Petroleum coke (25% of total heat input), tires (30 % of total heat input), fly ash (5% of total heat input).		
Emission Unit 4: Clinker Handling 115 TPH Clinker (peak)			
L-01	Clinker cooler discharge and breaker conveyor	0.01 gr/dscf	5
L-06	Clinker into clinker silo North	0.01 gr/dscf	5
K-15	Clinker Cooler (ESP)		10
Emission Unit 5: Finish Grinding Operations Process Rate = 150 TPH Cement Output			
M-08	Clinker to finish mill	0.01 gr/dscf	5
N-09	Finish mill air separator	0.01 gr/dscf	5
N-12	Finish mill	0.01 gr/dscf	5
N-91	Cement handling Bucket Conveyor in the finish mill	0.01 gr/dscf	5
Q-25	Cement Storage East Silo	0.01 gr/dscf	5
Q-26	Cement Storage West Silo	0.01 gr/dscf	5
Emission Unit 6: Cement Handling, Loading & Bagging Process Rate = 500 TPH Cement Unloading			
Q-14	Cement Silo Loadout South	0.01 gr/dscf	5
Q-17	Cement Silo Loadout North	0.01 gr/dscf	5
Q-21	Cement Silo Railcar Loadout	0.01 gr/dscf	5
R-12	Cement bagging operation	0.01 gr/dscf	5

TABLE I

ALLOWABLE OPACITY LIMITATIONS

Emission Unit 7: Coal Handling and Grinding Process Rate = 14 TPH Pulverized Coal, Petroleum Coke and Fly Ash			
S-17	Coal and Petroleum Coke Mill	0.01 gr/dscf	5
S-21	Pulverized coal and Petroleum Coke and Fly Ash storage bin	0.01 gr/dscf	5
Fugitive	Coal, Petroleum Coke and Fly Ash Handling and Storage		5/20
Emission Unit 8: Clinker-to-Railcar/ Truck Transfer Conveyor Process Rate = Cement Clinker 400TPH and 120,000 TPY			
EP01	Conveyors		5
EP02	Head Chute		5
EP03	Railcar/ Truck- Loading spout		5

TABLE II

ALLOWABLE EMISSIONS

Pollutant	BACT Emission Limit		Emission Rate*		Basis++
	lb/ton clinker	lb/ton dry feed	lb/hr	ton/yr	
PM (kiln)	0.23	0.14	25.9	94	BACT
PM_{10} (kiln)	0.20	0.12	22.1	80	BACT
PM (cooler)	0.14	0.08	15.4	56	BACT
PM_{10} (cooler)	0.12	0.07	13.0	47	BACT
SO_2 (kiln) +	0.16	0.10	17.7	64	BACT
NO_X (kiln)**	2.45	1.50	271	980	BACT
H_2SO_4 (kiln)	0.0025	0.0016	0.25	1	BACT
CO (kiln)	2.50	1.55	276	1000	BACT
VOC (kiln)	0.11	0.075	11.8	43	BACT

Notes:

* The kiln emission rate includes fuel oil combustion emissions from the raw mill air heater.

** Represents revised NO_X limit (30-day rolling average) based on continuous monitoring data.

\+ Represents revised SO_2 limit (24-hour rolling average) based on compliance tests and continuous monitoring data.

++ BACT values are representative of kiln permitted in 1996 and reflective of as-built configuration and not as a new kiln.