Nucor Steel Inc.
Cold Reversing Mill No. 2 (CRM2)
Huger, South Carolina
Permit No. TV-0420-0060
ID No. 09 Stack 309
Tests of Oct. 10, 2001

Particulate (Method 5)

Test	Production	Capacity 1	Emissions		Allowables
#	tons/hr	%	gr/dscf	lb/hr	lb/hr
1	92.47	50.5	0.0032	2.768	3.2
2	149.19	81.5	0.0031	2.622	3.2
3	172.80	94.4	0.0032	2.596	3.2
Average	138.15	75.5	0.0032	2.662	3.2

Based on the rated process of 183 tons/hr. (SSTP~2001)

Visibles (Method 9)

Test #	1	2	3
No. of 6 Min Sets	3	3	3
Sets Greater Than Standard	0	0	0
Average Opacity %	0.625	0.42	0.42
Set Max/Min Opacity %	1/0	1/0	1/0

Operational Notes

1. PM/PM10 emissions are limited to 3.2 lbs/hr and 14 TPY to avoid triggering PSD.
2. The control device, a Busch PPS/DBF High Efficiency Mist Eliminator, removes particulate (down to .03 micron) by inertial impaction, direct inception and Brownian capture.
3. The fan amps averaged 41.66 and ranged from 41.05 to 42.71 during the test.
4. The opacity limit is 20%.
5. Control device ID # ME2 (Mist Eliminator 2).
6. Visible Emissions were done by plant personnel.
7. Same ID # 9 for Cold Reversing Mills 1 & 2.
8. Normal production approximately 100 tons/hr.

Status as Tested:

Permit no. TV-0420-0060-Emissions Limits and Standards(Particulate).....Compliance
Permit no. TV-0420-0060-Emissions Limits and Standards(Visibles).....Compliance

cc: Jake Frick
Annie Richardson
Debra Basnight
Carol Boney
Bruce Hennessee, Trident District
Main File

Report Received: 11/29/2001
Report Completed: 12/19/2001
Report Reviewer: Teresie Walker

Nucor Steel Corporation

Tunnel Furnaces

Huger, S. C.

Tests Results-May 15, 1997

20.2

Permit No. 0420-006

Id No. CO

NOx Emissions:

East

Test	One	Two	Three	Average
Conc.(ppm)	55.00	55.00	56.00	55.00
Stack Flow Rate(dscfh)*	987000	987000	1007000	994000
Emission Rate(lb/hr)	6.49	6.49	6.74	**6.57**

*dscf at 68 degF, 29.92" Hg.

Allowable(lbs/hr) **23.8**

West

Test	One	Two	Three	Average
Conc.(ppm)	33.00	46.00	42.00	40.00
Stack Flow Rate(dscfh)*	1008000	1030000	1063000	1034000
Emission Rate(lb/hr)	3.97	5.66	5.33	**4.99**

*dscf at 68 degF, 29.92" Hg.

Allowable(lbs/hr) **23.8**

Operational Notes

1. Production during the tests was an average 56.19 T/hour.

Status as Tested:

S.C. Permit No. 0420-0060-CO (NOx).....COMPLIANCE

cc: Jake Frick
Jerry Chalmers
Larry Ragsdale
Beth Boland
Bruce Hennessee, Trident District
Main File

Report Received: June 13, 1997
Review Complete: August 26, 1997
Reviewer: Chris Corley CC

Nucor Steel Corporation
Tunnel Furnaces
Huger, S. C.
Tests Results-August 8, 1997

Permit No. 0420-0060
Id No. CO

NOx Emissions:

East

Test	One	Two	Three	Average
Conc.(ppm)	67.2	65.5	73.2	68.6
Stack Flow Rate(dscfh)*	1053000	946000	901000	967000
Emission Rate(lb/hr)	8.45	7.40	7.88	**7.91**

***dscf at 68 degF, 29.92" Hg.**
Allowable(lbs/hr) **23.8**

West

Test	One	Two	Three	Average
Conc.(ppm)	56.4	55.4	51.1	54.3
Stack Flow Rate(dscfh)*	1083000	1051000	1041000	1058000
Emission Rate(lb/hr)	7.30	6.96	6.36	**6.87**

***dscf at 68 degF, 29.92" Hg.**
Allowable(lbs/hr) **23.8**

Operational Notes

1. Production during the tests was an average 148.125 T/hour.

Status as Tested:

S.C. Permit No. 0420-0060-CO (NOx).....COMPLIANCE

cc: Jake Frick
Jerry Chalmers
Larry Ragsdale
Beth Boland
Bruce Hennessee, Trident District
Main File

Report Received: September 8, 1997
Review Complete: September 11, 1997
Reviewer: Chris Corley