Configuration Options 2016 CEMS Users Group

Color Coded Cells

	10 Second		Previous Minute		Current Hour		Previous Hour		3 Hour Rolling	Limits	
Process Code	Normal		Normal		Normal		Normal		Normal	//////	
02%	12.83	Valid	12.82	Valid	12.53	Valid	12.50	Valid		//////	
NOx ppm	9.98	Valid	9.68	Valid	10.06	Valid	9.99	Valid	7//////////////////////////////////////	//////	
NOx ppm @15% 02	7.30	Valid	7.07	Valid	7.10	Valid	7.02	Valid		15.00	
NOx lb/hr	105.67	Valid	100.50	Valid	100.24	Valid	99.96	Valid	///////////////////////////////////////	47.80	
CO ppm	9.83	Valid	9.72	Valid	10.04	Valid	10.00	Valid	///////////////////////////////////////	//////	
CO ppm @15% 02	7.19	Valid	7.10	Valid	7.08	Valid	7.02	Valid	7.02	10.00	
CO lb/hr	63.09	Valid	61.29	Valid	60.86	Valid	61.05	Valid		22.00	
NH3 Slip ppm @15% 02	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid	0.00	10.00	
NH3 Slip Ib/hr	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid		13.90	
CT Gas Flow Ib/sec	32.56	Valid	32.21	Valid	32.00	Valid	31.98	Valid	7//////////////////////////////////////	7/////	
CT Oil Flow Ib/sec	16.63	Valid	16.13	Valid	15.99	Valid	16.01	Valid			
Heat Input mmBtu/hr	3870.4	Valid	3807.1	Valid	3779.3	Valid	3815.2	Valid	///////////////////////////////////////	//////	
Megawatts	80.5	Valid	82.4	Valid	80.4	Valid	80.0	Valid		//////	
Steam Injection Ib/sec	33.24	Valid	32.43	Valid	31.90	Valid	32.03	Valid	7//////////////////////////////////////	7/////	
NH3 Flow lb/hr	76.83	Valid	75.81	Valid	74.83	Valid	74.99	Valid			

Custom Color Coded Cells

	10 Second		Previous Minute		Current Hour		Previous Hour		3 Hour Rolling	Limits	
Process Code	Normal		Normal		Normal		Normal		Normal	4/////	
02%	12.02	Valid	12.44	Valid	12.53	Valid	12.50	Valid			
NOx ppm	9.95	Valid	10.13	Valid	10.19	Valid	9.99	Valid		//////	
NOx ppm @15% 02	6.61	Valid	7.06	Valid	7.20	Valid	7.02	Valid		15.00	
NOx lb/hr	94.18	Valid	99.88	Valid	101.71	Valid	99.96	Valid	411111111	47.80	
CO ppm	10.02	Valid	10.23	Valid	10.14	Valid	10.00	Valid		1//////	
CO ppm @15% 02	6.66	Valid	7:13	Valid	7.16	Valid	7.02	Valid	7.02	10.00	
CO lb/hr	57.57	Valid	61.29	Valid	61.64	Valid	61.05	Valid		22.00	
NH3 Slip ppm @15% 02	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid	0.00	10.00	
NH3 Slip Ib/hr	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid		13.90	
CT Gas Flow Ib/sec	32.65	Valid	31.90	Valid	31.95	Valid	31.98	Valid		1//////	
CT Oil Flow lb/sec	15.67	Valid	16.17	Valid	16.06	Valid	16.01	Valid			
Heat Input mmBtu/hr	3812.8	Valid	3783.7	Valid	3780.3	Valid	3815.2	Valid	//////////////////////////////////////	//////	
Megawatts	81.7	Valid	80.4	Valid	79.4	Valid	80.0	Valid		///////	
Steam Injection Ib/sec	30.83	Valid	31.87	Valid	31.97	Valid	32.03	Valid	11/1/1/1/1/	'//////	
NH3 Flow Ib/hr	72.20	Valid	72.91	Valid	75.09	Valid	74.99	Valid			

Custom Color Coded Cells

	10 Seco	ond	Previous Minute		Current I	lour	Previous	Hour	3 Hour Rolling	Limits	
Process Code	Normal		Normal		Normal	j.	Normal		Normal	//////	
02%	12.26	Valid	12.20	Valid	12.53	Valid	12.50	Valid		///////	
NOx ppm	9.74	Valid	9.67	Valid	10.05	Valid	9.99	Valid		//////	
N0x ppm @15% 02	6.65	Valid	6.56	Valid	7.09	Valid	7.02	Valid		15.00	
NOx lb/hr	92.95	Valid	94.38	Valid	100.28	Valid	99.96	Valid	///////////////////////////////////////	47.80	
CO ppm	9.65	Valid	9.76	Valid	10.04	Valid	10.00	Valid			
CO ppm @15% 02	6.59	Valid	6.62	Valid	7.08	Valid	7.02	Valid	7.02	10.00	
CO lb/hr	56.22	Valid	57.78	Valid	60.90	Valid	61.05	Valid		22.00	
NH3 Slip ppm @15% 02	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid	0.00	10.00	
NH3 Slip Ib/hr	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid		13.90	
CT Gas Flow Ib/sec	31.98	Valid	32.82	Valid	32.06	Valid	31.98	Valid		//////	
CT Oil Flow Ib/sec	15.55	Valid	16.04	Valid	16.02	Valid	16.01	Valid			
Heat Input mmBtu/hr	3748.3	Valid	3852.3	Valid	3786.7	Valid	3815.2	Valid	<u>'////////////////////////////////////</u>	//////	
Megawatts	83.4	Valid	81.5	Valid	79.9	Valid	80.0	Valid		1//////	
Steam Injection Ib/sec	30.78	Valid	31.81	Valid	31.99	Valid	32.03	Valid		//////	
NH3 Flow Ib/hr	74.74	Valid	73.63	Valid	74.82	Valid	74.99	Valid	1//////////////////////////////////////	/////	

Custom Color Coded Cells

Process Code	10 Seco	ond	Previous Minute Current Ho			lour	Previous	Hour	3 Hour Rolling	Limits
	Shutdown		Shutdown		Shutdown		Normal		Normal	///////
02%	12.24	Valid	12.85	Valid	12.52	Valid	12.50	Valid		//////
NOx ppm	10.40	Valid	10.04	Valid	10.01	Valid	9.99	Valid	'//////////////////////////////////////	'//////
NOx ppm @15% 02	7.09	Valid	7.36	Valid	7.06	Valid	7.02	Valid		15.00
NOx lb/hr	97.39	Valid	104.95	Valid	99.81	Valid	99.96	Valid		47.80
CO ppm	10.38	Valid	9.82	Valid	10.01	Valid	10.00	Valid	///////////////////////////////////////	//////
CO ppm @15% 02	7.07	Valid	7.20	Valid	7.06	Valid	7.02	Valid	7.02	10.00
CO lb/hr	59.17	Valid	62.59	Valid	60.72	Valid	61.05	Valid		22.00
NH3 Slip ppm @15% 02	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid	0.00	10.00
NH3 Slip Ib/hr	0.00	Valid	0.00	Valid	0.00	Valid	0.00	Valid		13.90
CT Gas Flow Ib/sec	30.98	Valid	32.53	Valid	32.03	Valid	31.98	Valid		'//////
CT Oil Flow Ib/sec	15.71	Valid	15.87	Valid	16.00	Valid	16.01	Valid		
Heat Input mmBtu/hr	3674.9	Valid	3816.3	Valid	3783.6	Valid	3815.2	Valid		'//////
Megawatts	83.1	Valid	79.8	Valid	79.8	Valid	80.0	Valid		//////
Steam Injection Ib/sec	32.03	Valid	32.48	Valid	31.98	Valid	32.03	Valid	'//////////////////////////////////////	'//////
NH3 Flow lb/hr	72.17	Valid	74.35	Valid	75.04	Valid	74.99	Valid		//////

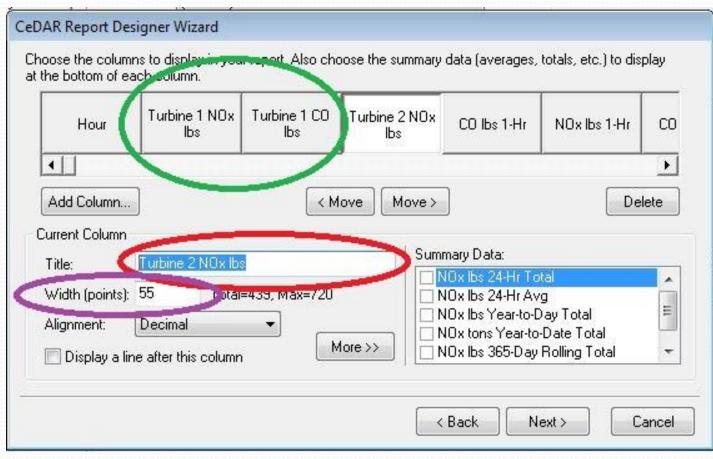
Report Wizard Options

• Lots of parameters to pick from!!

Choose the col at the bottom o	Select Data Source	to display
	Parameter You can select multiple parameters. Each parameter will be added as a separate column.	
Add Colum Current Colur	75-NOx lb/mmBtu 1-Hr 75-NOx lb/mmBtu 1-Hr Bias Adj NOx lb/hr 1-Hr Avg Normal Ops NOx lbs 3-Hr Block Normal Ops NOx lbs 1-Hr NOx lbs 1-Hr	 Delete
Title: Width (poin Alignment:	NOx lbs % Availability 1-Hr Date/Time	
Display .	OK Cancel	Cancel

Report Wizard Options

• You have the ability to rename the columns!!



CeDAR Report Designer Wizard

Emission Limits	
NUx lbs Limit - 1.104.0.60.1015	
CO Lbs Limit	
	· · · · · · · · · · · · · · · · · · ·
€ []	
Current Cell Text Current Cell Current	Row/Column Whole Grid
Text: COLbsLimit	
Vertical Line	
Horizontal Line	
Both Lines	
Facility Name	Select Parameter
Facility Address	Please select a parameter to be included in the grid.
Report Name	
	Normal Ops NOx ppm @15% 02 3·Hr Block Limit NOx ppm @15% 02 Limit 4·Hr (Subpart GG)
Report Year	Normal Ops NOx lbs 3-Hr Block Limit NOx tons/Cold Startup Event Limit
Report Quarter	NOx tons/Hot Startup Event Limit NOx tons/Shutdown Event Limit
	NOx tons/Auto Unload Event Limit
Report Month (name)	
	OK Cancel

Level For Limit Calculations

- Provide predictive/target emissions level to run at to be at the limit.
- Available for short term limits (Hourly, 3-Hr Rolling, etc.)

Level For Limit Examples

	10 Seco	nd	Previous Minute		Current Hour		Level For Limit		Previous Hour		Limit	
Process Status	Normal		Normal		Normal		///////////////////////////////////////		Normal		//////	
02%	15.00	Valid	15.00	Valid	12.55	Valid	[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	/////	12.50	Valid	//////	
NOx ppm	2.50	Valid	2.50	Valid	8.90	Valid	7//////	/////	9.99	Valid	//////	
NOx ppm @15% 02	2.50	Valid	2.50	Valid	6.29	Valid	0.9	Valid	7.02	Valid	2.5	
NOx lb/mmBtu	0.0092	Valid	0.0092	Valid	0.0231	Valid		/////	0.0258	Valid	//////	
NOx lb/hr	1.93	Valid	1.93	Valid	0.63	Valid	37.5	Valid	99.96	Valid	26.5	
CO ppm	2.80	Valid	2.80	Valid	8.93	Valid	//////		10.00	Valid	//////	
CO ppm @15% 02	2.80	Valid	2.80	Valid	6.31	Valid	80.9	Valid	7.02	Valid	15.0	
CO Ib/mmBtu	0.0063	Valid	0.0063	Valid	0.0141	Valid			0.0157	Valid		
CO lb/hr	1.32	Valid	1.32	Valid	0.39	Valid	218.2	Valid	61.05	Valid	95.7	

Level For Limit Examples

Process Status	10 Seco	ond	Previous Minute		Current Hour		Level For Limit		Previous Hour		Limit
	Normal		Normal		Normal		///////	////.	Normal		/////
02%	14.98	Valid	14.96	Valid	14.90	Valid	1///////	/////	12.83	Valid	1//////
NOx ppm	1.03	Valid	1.14	Valid	1.11	Valid	1///////	////	8.02	Valid	7/////
NOx ppm @15% 02	1.03	Valid	1.13	Valid	1.09	Valid	21.7	Valid	5.86	Valid	2.5
NOx lb/mmBtu	0.0038	Valid	0.0042	Valid	0.0040	Valid			0.0216	Valid	//////
NOx Ib/hr	7.98	Valid	8.84	Valid	8.42	Valid	275.4	Valid	4.80	Valid	26.5
CO ppm	2.96	Valid	2.99	Valid	2.90	Valid	1///////	////	8.22	Valid	7/////
CO ppm @15% O2	2.95	Valid	2.97	Valid	2.85	Valid	181.4	Valid	6.01	Valid	15.0
CO Ib/mmBtu	0.0066	Valid	0.0066	Valid	0.0064	Valid	///////	1///	0.0134	Valid	/////
CO lb/hr	13.87	Valid	13.88	Valid	13.47	Valid	1225.9	Valid	2.98	Valid	95.7

I/O Audit Inactive | Free space: <C: 190 GB> <Y: 1,369 GB> | 9/12/2016 | 1:56:33 PM MDT