New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
1	Error	Control Efficiencies	Pollutant	If PM2.5 is present, then PM10 must be present	
2	Error	Control Efficiencies	Primary Device Efficiency (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
3	Error	Control Efficiencies	Primary Device Efficiency (%)	Min Value = 1.0 Max Value = 99.9	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
4	Error	Control Efficiencies	Primary Device Efficiency (%) Secondary Device Efficiency (%)	If a secondary control device is reported, then both primary and secondary efficiencies are required	
5	Error	Control Efficiencies	Primary Device Efficiency (%) Secondary Device Efficiency (%) Total Efficiency (5)	PM2.5 control efficiency must be <= PM10 control efficiency	
6	Error	Control Efficiencies	Primary Device Efficiency (%) Total Efficiency (%)	If primary efficiency is present and there is no secondary efficiency, the primary efficiency must equal total efficiency	
7	Error	Control Efficiencies	Secondary Device Efficiency (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
8	Error	Control Efficiencies	Secondary Device Efficiency (%)	Min Value = 1.0 Max Value = 99.9	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
9	Error	Control Efficiencies	Total Efficiency (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal

	Validation Type	Tab	Data Element	Validation	Notes
10	Error	Control Efficiencies	Total Efficiency (%)	Min Value = 1.0 Max Value = 99.9	If reporting a value of " "0 was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
11	Warning	Control Efficiencies	Total Efficiency (%)	When primary and secondary efficiencies are reported, compare Total Efficiency as reported with calculated Efficiency and when not equal, give warning	TE=[100-((100-PE)(100-SE))/100], where TE = Total Efficiency, PE = Primary Efficiency, and SE = Secondary Efficiency
12	Error	Emission Factor	Emission Factor	Min Value > 0	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
13	Error	Emissions	Control System ID	If control system ID is present on the emissions path, then a control efficiency must be present on the control efficiencies tab	
14	Warning	Emissions	Pollutant	Emissions should be reported for pollutants reported in control efficiencies.	
15	Error	Emissions	Pollutant	If PM2.5 is present, then PM10 must be present	Keep in mind that PM2.5 is required to be reported when emitted, so please do not remove PM2.5 emissions in order to pass validation. Instead, please include PM10 emissions.
16	Error	Emissions	Pollutant	PM2.5 emissions must be <= PM10 emissions	Keep in mind that PM2.5 is required to be reported when emitted, so please do not remove PM2.5 emissions in order to pass validation. Instead, please include PM10 emissions.
17	Warning	Emissions	Total Emissions	Emissions should be reported for pollutants reported in control efficiencies.	
18	Error	Emissions	Total Emissions	Total and individual VOC TAPs must be <= Total VOC by emissions path and facility totals	VOC TAPs should also be included in the Total VOC. We do not sum reported VOC emissions with VOC TAPs to determine Total VOC. Users should report Total VOC emissions, including VOC TAPs.

	Validation Type	Tab	Data Element	Validation	Notes
19	Error	Facility Info	All Coordinates	If both UTM & Lat/Longs are reported, they should both point to the same location	
20	Error	Facility Info	All Coordinates	When UTMs are reported and then converted to Lat/Longs, they should both point to the same location	
21	Error	Facility Info	Latitude	ERIC Field Size = Number(8,5)	8 digits to the left of the decimal and 5 to the right of the decimal
22	Error	Facility Info	Latitude	Max Value = 33.1	
23	Error	Facility Info	Longitude	ERIC Field Size = Number(9,5)	9 digits to the left of the decimal and 5 to the right of the decimal
24	Error	Facility Info	Longitude	Min value = -94.1	
25	Error	Facility Info	UTM Easting	When Zone = 15, then Min Value = 400,000 & Max Value = 800,000	
26	Error	Facility Info	UTM Easting	When Zone = 16, then Min Value = 200,000 & Max Value = 350,000	
27	Error	Facility Info	UTM Northing	When Zone = 15, then Min Value = 3,200,000 & Max Value = 3,655,000	
28	Error	Facility Info	UTM Northing	When Zone = 16, then Min Value = 3,200,000 & Max Value = 3,435,000	
29	Error	Portable Source Location	All Coordinates	If both UTM & Lat/Longs are reported, they should both point to the same location	
30	Error	Portable Source Location	All Coordinates	When UTMs are reported and then converted to Lat/Longs, they should both point to the same location	
31	Error	Portable Source Location	Horizontal Accuracy Measure	ERIC Field Size = Whole number with a max of 6 digits	
32	Error	Portable Source Location	Horizontal Accuracy Measure	Min Value = 1 Max Value = 2000	If reporting 0 was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting 0 was the method of showing that there isn't data for this field, then leave the field blank.
33	Error	Portable Source Location	Latitude	ERIC Field Size = Number(8,5)	8 digits to the left of the decimal and 5 to the right of the decimal
34	Error	Portable Source Location	Latitude	Max Value = 33.1	
35	Error	Portable Source Location	Longitude	ERIC Field Size = Number(9,5)	9 digits to the left of the decimal and 5 to the right of the decimal
36	Error	Portable Source Location	Longitude	Min value = -94.1	

New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
37	Error	Portable Source Location	UTM Easting	When Zone = 15, then Min Value = 400,000 & Max Value = 800,000	
38	Error	Portable Source Location	UTM Easting	When Zone = 16, then Min Value = 200,000 & Max Value = 350,000	
39	Error	Portable Source Location	UTM Northing	When Zone = 15, then Min Value = 3,200,000 & Max Value = 3,655,000	
40	Error	Portable Source Location	UTM Northing	When Zone = 16, then Min Value = 3,200,000 & Max Value = 3,435,000	
41	Error	Process	Ash Content (fuel) Annual Average (%)	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal
42	Error	Process	Ash Content (fuel) Annual Average (%)	Min Value = 0.01 Max Value = 20.00	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
43	Error	Process	Ash Content (fuel) Ozone Season Average (%)	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal
44	Error	Process	Ash Content (fuel) Ozone Season Average (%)	Min Value = 0.01 Max Value = 20.00	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
45	Error	Process	Average Annual Heat Content	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal

New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
46	Error	Process	Average Annual Heat Content	If required, then must be >=0.00	If reporting 0 was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting 0 was the method of showing that there isn't data for this field, then leave the field blank.
47	Error	Process	Average Days/Week	Min Value > 0 Max Value = 7	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
48	Error	Process	Average Hours/Day	Min Value > 0 Max Value = 24	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
49	Error	Process	Fall Throughput (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
50	Error	Process	Ozone Season Average Heat Content	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal
51	Error	Process	Ozone Season Average Heat Content	If required to report Ozone season heat content, then heat content >=0	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.

	Validation Type	Tab	Data Element	Validation	Notes
52	Error	Process	Spring Throughput (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
53	Error	Process	Sulfur Content (fuel) Annual Average (%)	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal
54	Error	Process	Sulfur Content (fuel) Annual Average (%)	Min Value = 0.01 Max Value = 10.00	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
55	Error	Process	Sulfur Content (fuel) Ozone Season Average (%)	ERIC Field Size = Number(5,2)	5 digits to the left of the decimal and 2 to the right of the decimal
56	Error	Process	Sulfur Content (fuel) Ozone Season Average (%)	Min Value = 0.01 Max Value = 10.00	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
57	Error	Process	Summer Throughput (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
58	Error	Process	Weeks per Year	Min Value > 0 Max Value = 52	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
59	Error	Process	Winter Throughput (%)	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
60	Error	Release Point	Accuracy	ERIC Field Size = Whole number with a max of 6 digits	

New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
61	Error	Release Point	Accuracy	Min Value = 1 Max Value = 2000	If reporting a value of "0" was the method of showing this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
62	Error	Release Point	All Coordinates	If both UTM & Lat/Longs are reported, they should both point to the same location	
63	Error	Release Point	All Coordinates	The location of the release point coordinates should be wthin 8000 meters (approximately 5 mile) of the facility coordinates.	~If the release point location is further than 8000 meters from the facility coordinates (typically front gate), users will get an ERROR and must correct the release point location data. ~If the release point is legitimately further than 8000 meters from the facility coordinates, users must provide verification of such and request that the 8000 meter limit be increased. Once a request is received and the distance is verified, LDEQ can adjust the specific limit for that facility.
64	Error	Release Point	All Coordinates	When UTMs are reported and then converted to Lat/Longs, they should both point to the same location	
65	Error	Release Point	Diameter	Diameter must be < height (otherwise it must be an area or fugitive source.)	
66	Error	Release Point	Diameter	ERIC Field Size = Number(5,1)	5 digits to the left of the decimal and 1 to the right of the decimal
67	Error	Release Point	Diameter	Min Value = 0.1 Max Value = 100.0	
68	Warning	Release Point	Diameter	Remove the warning - "diameter must be <=20% of height"	Removed
69	Error	Release Point	Exit Gas Flow Rate	ERIC Field Size = Number(9,1)	9 digits to the left of the decimal and 1 to the right of the decimal

	Validation Type	Tab	Data Element	Validation	Notes
70	Error	Release Point	Exit Gas Flow Rate	If flow rate, velocity, & diameter are reported, calculate the flow rate measure. If the calculated value and the reported value differ by more than 5%, then flow rate is invalid	~If the calculated value and the reported value differ by more than 5%, then flow rate is invalid and where the release point type is a stack or vent, users will receive an ERROR. ~If the release point type is an area or fugitive, users will receive a WARNING. ~When receiving this error, the velocity and flow rate should be accurate. Users should concentrate on getting all values accurate, but when velocity and flow rate are accurate, then adjust diameter. ~If the release point is not circular, then back calculate the diameter as if circular and report that value. Flow Rate = {Pi} * (Diameter/2)^2) * Velocity
71	Error	Release Point	Exit Gas Flow Rate	If release point type is area or fugitive, then Min Value = 0.0, Max Value = 200,000.0	
72	Error	Release Point	Exit Gas Flow Rate	If release point type is stack or vent, then Min Value = 0.1, Max Value = 200,000.0	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
73	Warning	Release Point	Exit Gas Flow Rate	Remove the warning - "Calculated flow rate and entered flow rate differ by more than 10%"	Removed
74	Error	Release Point	Exit Gas Temperature	ERIC Field Size = Whole number with a max of 4 digits	
75	Error	Release Point	Exit Gas Temperature	Min Value = 30 Max Value = 3500	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.

	Validation Type	Tab	Data Element	Validation	Notes
76	Warning	Release Point	Exit Gas Temperature	Remove the warning - "temperature must be >=32 deg F and <= 2000 deg F"	Removed
77	Error	Release Point	Exit Gas Velocity	ERIC Field Size = Number(7,1)	7 digits to the left of the decimal and 1 to the right of the decimal
78	Error	Release Point	Exit Gas Velocity	If release point type is area or fugitive, then Min Value = 0.0, Max Value = 600.0	
79	Error	Release Point	Exit Gas Velocity	If release point type is stack or vent, then Min Value = 0.1, Max Value = 600.0	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
80	Warning	Release Point	Exit Gas Velocity	Remove the warning - "entered velocity must be <150 ft/sec"	Removed
81	Warning	Release Point	Height	Height is desired for area & fugitive release point types or if width & length are reported, then height is desired	While this information is helpful for the Department, this is an optional field in ERIC.
82	Error	Release Point	Height	If release point type is area or fugitive and height is present, then Min Value = 0, Max Value = 200	
83	Error	Release Point	Height	If release point type is area or fugitive, then ERIC Field Size should be a whole number with a max of 3 digits	
84	Error	Release Point	Height	If release point type is stack or vent, then ERIC datatype = Number(6,1)	
85	Error	Release Point	Height	If release point type is stack or vent, then Min Value = 1.0, Max Value = 750.0	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
86	Warning	Release Point	Height	Remove the warning - "Stack height must be <=500 ft"	Removed
87	Error	Release Point	Latitude	ERIC Field Size = Number(8,5)	8 digits to the left of the decimal and 5 to the right of the decimal
88	Error	Release Point	Latitude	Max Value = 33.1	
89	Error	Release Point	Length	ERIC Field Size = Whole number with a max of 6 digits	

New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
90	Error	Release Point	Length	If release point type is area or fugitive, then Min Value = 1, Max Value = 10,000	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
91	Error	Release Point	Longitude	ERIC Field Size = Number(9,5)	9 digits to the left of the decimal and 5 to the right of the decimal
92	Error	Release Point	Longitude	Min value = -94.1	
93	Error	Release Point	Orientation	ERIC Field Size = Whole number with a max of 3 digits	
94	Error	Release Point	UTM Easting	When Zone = 15, then Min Value = 400,000 & Max Value = 800,000	
95	Error	Release Point	UTM Easting	When Zone = 16, then Min Value = 200,000 & Max Value = 350,000	
96	Error	Release Point	UTM Northing	When Zone = 15, then Min Value = 3,200,000 & Max Value = 3,655,000	
97	Error	Release Point	UTM Northing	When Zone = 16, then Min Value = 3,200,000 & Max Value = 3,435,000	
98	Error	Release Point	Width	ERIC Field Size = Whole number with a max of 6 digits	
99	Error	Release Point	Width	If release point type is area or fugitive, then Min Value = 1, Max Value = 10,000	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
100	Warning	Source	Engine Rating	If source type is Internal combustion engine, then Engine Rating is desired	While this information is helpful for the Department, this is an optional field in ERIC.
101	Error	Source	Engine Rating	Min Value = 0.01 Max Value = 100,000,000	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.

New ERIC Validations for Reporting Year 2010

	Validation Type	Tab	Data Element	Validation	Notes
102	Warning	Source	Max Design Rate	If source is Boiler or FCCU catalyst regenerator or Furnace or Glycol dehydration reboiler or Heater or Line heater or Oven, then Max Design Rate is desired	While this information is helpful for the Department, this is an optional field in ERIC.
103	Error	Source	Max Design Rate	Min Value = 0.01 Max Value = 100,000,000	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
104	Warning	Source	Max Nameplate Capacity	If source type is Turbine, then Max Nameplate Capacity is desired	While this information is helpful for the Department, this is an optional field in ERIC.
105	Error	Source	Max Nameplate Capacity	Min Value = 0.01 Max Value = 100,000,000	If reporting a value of "0" was the method of showing that this item is no longer operating, either temporary or permanently, you will now be required to either remove the item all together or change the status to “Idle” or “Permanently Shutdown.” If reporting a value of "0" was the method of showing that there isn't data for this field, then leave the field blank.
106	Error	Source	Permanent Shutdown Date	If Status is Permanently Shutdown, then Permanent Shutdown Date is required	
107	Error	Source	Status	If Status is Permanently Shutdown, then no emissions can be defined	
108	Error	Source	Status	If Status is Permanently Shutdown, then no processes can be defined	