

APPENDIX A. eGRID2012 FILE STRUCTURE - VARIABLE DESCRIPTIONS FOR 2009 DATA YEAR

The year 2009 data for eGRID2012 are initially in database format and are then transformed into Excel spreadsheets. The structure of the nine database files – including descriptions of the variables, *unit of measurement*, and original source(s) of data – are delineated below in the file structure. NOTE: *Italics indicates new field*; **bold indicates methodological change**.

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 BLR Boiler File*

Field	Name	Description	Unit	Source(s)
1	SEQBLR09	<i>eGRID2012 year 2009 file boiler sequence number</i>		
2	PSTATABB	Plant state abbreviation		EIA-860
3	PNAME	Plant name		EIA-860 + updates
4	ORISPL	DOE/EIA ORIS plant or facility code		EIA-860 + updates
5	BLRID	Boiler ID		EPA/CAMD, EIA-923
6	ARPFLAG	Acid Rain Program flag: 1 = Yes		EPA/CAMD
7	<i>PRGCODE</i>	<i>Program code(s)</i>		<i>EPA/CAMD</i>
8	BOTFIRTY	Boiler bottom and firing type		EPA/CAMD, EIA-860
9	NUMGEN	Number of associated generators		EIA-860
10	FUELB1	Boiler primary fuel		EPA/CAMD, EIA-923
11	HRSOP	Unit operating hours	hours	EPA/CAMD
12	HTIEAN	Boiler unadjusted annual EPA/CAMD heat input	MMBtu	EPA/CAMD
13	HTIEOZ	Boiler unadjusted ozone season EPA/CAMD heat input	MMBtu	EPA/CAMD
14	HTIFAN	Boiler unadjusted annual total EIA-based calculated heat input	MMBtu	EIA-923
15	HTIFOZ	Boiler unadjusted ozone season EIA-based calculated heat input	MMBtu	EIA-923
16	NOXEAN	Boiler unadjusted annual EPA/CAMD NO _x emissions	tons	EPA/CAMD
17	NOXEOZ	Boiler unadjusted ozone season EPA/CAMD NO _x emissions	tons	EPA/CAMD
18	NOXFAN	Boiler unadjusted annual EIA-based calculated NO _x emissions	tons	EIA-923
19	NOXFOZ	Boiler unadjusted ozone season EIA-based calculated NO _x emissions	tons	EIA-923
20	SO2EAN	Boiler unadjusted annual EPA/CAMD SO ₂ emissions	tons	EPA/CAMD
21	SO2FAN	Boiler unadjusted annual EIA-based calculated SO ₂ emissions	tons	EIA-923
22	CO2EAN	Boiler unadjusted annual EPA/CAMD CO ₂ emissions	tons	EPA/CAMD
23	CO2FAN	Boiler unadjusted annual EIA-based calculated CO ₂ emissions	tons	EIA-923
24	SRCBEST	Source of "best" data from EPA/CAMD or EIA-923 boiler level		
25	HTIBAN	Boiler unadjusted annual best heat input	MMBtu	
26	HTIBOZ	Boiler unadjusted ozone season best heat input	MMBtu	
27	NOXBAN	Boiler unadjusted annual best NO _x emissions	tons	
28	NOXBOZ	Boiler unadjusted ozone season best NO _x emissions	tons	
29	SO2BAN	Boiler unadjusted annual best SO ₂ emissions	tons	
30	CO2BAN	Boiler unadjusted annual best CO ₂ emissions	tons	
31	SO2CTLDV	Boiler SO ₂ (scrubber) first control device		EPA/CAMD, EIA-860
32	NOXCTLDV	Boiler NO _x first control device		EPA/CAMD, EIA-860
33	HGCTLDV	Boiler Hg activated carbon injection system flag: 1 = Yes		EIA-860
34	BLRYRONL	Boiler year on-line		EPA/CAMD, EIA-860

*Note that summing the boiler unadjusted emissions to the plant level may not result in the same values as the plant unadjusted emissions since additional emissions from prime movers not covered by the EPA/CAMD or EIA-923 boiler level data may be included in the plant emissions values.

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 GEN Generator File**

Field	Name	Description	Unit	Source(s)
1	SEQGEN09	<i>eGRID2012 year 2009 file generator sequence number</i>		
2	PSTATABB	Plant state abbreviation		EIA-860
3	PNAME	Plant name		EIA-860 + updates
4	ORISPL	DOE/EIA ORIS plant or facility code		EIA-860 + updates
5	GENID	Generator ID		EIA-860
6	NUMBLR	Number of associated boilers		EIA-860
7	GENSTAT	Generator status		EIA-860
8	PRMVR	Generator prime mover type		EIA-860
9	FUELG1	Generator primary fuel		EIA-860
10	NAMEPCAP	Generator nameplate capacity	MW	EIA-860
11	CFACT	Generator capacity factor		
12	GENNTAN	Generator annual net generation	MWh	EIA-923
13	GENNTOZ	Generator ozone season net generation	MWh	EIA-923
14	GENERSRC	Generation data source		
15	GENYRONL	Generator year on-line		EIA-860

**Note that summing the generator generation to the plant level may not result in the same values as the plant generation. This file includes generation from nuclear units in the EIA-923, steam generators in the unit-level EIA-923, and those plant-prime movers in the EIA-923 that have only one generator in the EIA-860.

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PLNT Plant File

Field	Name	Description	Unit	Source(s)
1	SEQPLT09	<i>eGRID2012 year 2009 file plant sequence number</i>		
2	PSTATABB	Plant state abbreviation		EIA-860
3	PNAME	Plant name		EIA-860 + updates
4	ORISPL	DOE/EIA ORIS plant or facility code		EIA-860 + updates
5	FRSID	Plant EPA Facility Registry System (FRS) identification code		EPA FRS
6	OPRNAME	Plant operator name		EIA-860
7	OPRCODE	Plant operator ID		EIA-860
8	UTLSRVNM	Utility service territory name		EIA-860 + updates
9	UTLSRVID	Utility service territory ID		EIA-860 + updates
10	OPPRNUM	ID of the operator's parent company		
11	OPPRNAME	Name of the operator's parent company		
12	PCANAME	Power control area name		NERC, EIA-861 + updates
13	PCAIID	Power control area ID		NERC, EIA-861 + updates
14	NERC	NERC region acronym		NERC
15	SUBRGN	eGRID subregion acronym		EPA
16	SRNAME	eGRID subregion name		EPA
17	ISORTO	<i>Plant associated ISO/RTO Territory</i>		<i>EIA-860 (2010) + updates</i>
18	FIPSST	Plant FIPS state code		NIST based
19	FIPSCNTY	Plant FIPS county code		NIST based
20	CNTYNAME	Plant county name		EIA-860, EPA/CAMD
21	LAT	Plant latitude		EPA/CAMD, EIA + updates
22	LON	Plant longitude		EPA/CAMD, EIA + updates
23	CCFLAG	County centroid flag: 1 = County centroid used		
24	NUMBLR	Number of boilers		EPA/CAMD, EIA-860 calculated
25	NUMGEN	Number of generators		EIA-860 calculated
26	COMBUST	Plant combustion status: 1 = Combusts, 0 = No combustion, 0.5 = Partial combustion		
27	SOURCEM	Plant emissions source(s): EPA or EIA-923		
28	PLPRMFL	Plant primary fuel		
29	PLFUELCT	Plant primary coal/oil/gas/other fossil fuel category		
30	PLPFGNCT	Plant primary fuel generation category		
31	COALFLAG	Flag indicating if the plant burned or generated any amount of coal: 1 = Yes		
32	CAPFAC	Plant capacity factor		
33	NAMEPCAP	Plant nameplate capacity	MW	EIA-860 summed
34	RMBMFLAG	Biogas/biomass plant adjustment flag: 0 = No biomass; 1 = Biogas included; 100 = Other biomass included; 71 = CAMD emissions biogas adjustments; 7100 = CAMD CO ₂ biomass adjustment		
35	CHPFLAG	Combined heat and power (CHP) plant adjustment flag: 1 = Yes		eGRID CHP List
36	USETHRMO	CHP plant useful thermal output	MMBtu	EIA-923 calculated
37	PWRTOHT	CHP plant power to heat ratio		
38	ELCALLOC	CHP plant electric allocation factor		
39	PSFLAG	Plant pumped storage flag: 1 = Yes		EIA-860
40	PLHTIAN	Plant annual heat input	MMBtu	
41	PLHTIOZ	Plant ozone season heat input	MMBtu	
42	PLNGENAN	Plant annual net generation	MWh	EIA-923, EPA/CAMD calculated

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PLNT Plant File (continued).

Field	Name	Description	Unit	Source(s)
43	PLNGENZOZ	Plant ozone season net generation	MWh	EIA-923, EPA/CAMD calculated
44	PLNOXAN	Plant annual NO _x emissions	tons	
45	PLNOXOZ	Plant ozone season NO _x emissions	tons	
46	PLSO2AN	Plant annual SO ₂ emissions	tons	
47	PLCO2AN	Plant annual CO ₂ emissions	tons	
48	PLCH4AN	Plant annual CH ₄ emissions	lbs	
49	PLN2OAN	Plant annual N ₂ O emissions	lbs	
50	PLCO2EQA	Plant annual CO ₂ equivalent emissions ((1 * PLCO2AN) + (21 * PLCH4AN/2000) + (310 * PLN2OAN/2000))	tons	
51	PLHGAN	Plant annual Hg emissions	lbs	
52	PLNOXRTA	Plant annual NO _x total output emission rate	lb/MWh	
53	PLNOXRTO	Plant ozone season NO _x total output emission rate	lb/MWh	
54	PLSO2RTA	Plant annual SO ₂ total output emission rate	lb/MWh	
55	PLCO2RTA	Plant annual CO ₂ total output emission rate	lb/MWh	
56	PLCH4RTA	Plant annual CH ₄ total output emission rate	lb/GWh	
57	PLN2ORTA	Plant annual N ₂ O total output emission rate	lb/GWh	
58	PLC2ERTA	Plant annual CO ₂ equivalent total output emission rate	lb/MWh	
59	PLHGRTA	Plant annual Hg total output emission rate	lb/GWh	
60	PLNOXRA	Plant annual NO _x input emission rate	lb/MMBtu	
61	PLNOXRO	Plant ozone season NO _x input emission rate	lb/MMBtu	
62	PLSO2RA	Plant annual SO ₂ input emission rate	lb/MMBtu	
63	PLCO2RA	Plant annual CO ₂ input emission rate	lb/MMBtu	
64	PLHGRA	Plant annual Hg input emission rate	lb/BBtu	
65	PLNOXCRT	Plant annual NO _x combustion output emission rate	lb/MWh	
66	PLNOXCRO	Plant ozone season NO _x combustion output emission rate	lb/MWh	
67	PLSO2CRT	Plant annual SO ₂ combustion output emission rate	lb/MWh	
68	PLCO2CRT	Plant annual CO ₂ combustion output emission rate	lb/MWh	
69	PLCH4CRT	Plant annual CH ₄ combustion output emission rate	lb/GWh	
70	PLN2OCRT	Plant annual N ₂ O combustion output emission rate	lb/GWh	
71	PLHGCRT	Plant annual Hg combustion output emission rate	lb/GWh	
72	UNNOX	Plant unadjusted annual NO _x emissions	tons	
73	UNNOXOZ	Plant unadjusted ozone season NO _x emissions	tons	
74	UNSO2	Plant unadjusted annual SO ₂ emissions	tons	
75	UNCO2	Plant unadjusted annual CO ₂ emissions	tons	
76	UNCH4	Plant unadjusted annual CH ₄ emissions	lbs	
77	UNN2O	Plant unadjusted annual N ₂ O emissions	lbs	
78	UNHG	Plant unadjusted annual Hg emissions	lbs	
79	UNHTI	Plant unadjusted annual heat input	MMBtu	EPA/CAMD, EIA-923
80	UNHTIOZ	Plant unadjusted ozone season heat input	MMBtu	EPA/CAMD, EIA-923
81	PLHTRT	Plant nominal heat rate	Btu/kWh	
82	PLGENACL	Plant annual coal net generation	MWh	
83	PLGENAOL	Plant annual oil net generation	MWh	
84	PLGENAGS	Plant annual gas net generation	MWh	
85	PLGENANC	Plant annual nuclear net generation	MWh	
86	PLGENAHY	Plant annual hydro net generation	MWh	
87	PLGENABM	Plant annual biomass net generation	MWh	
88	PLGENAWI	Plant annual wind net generation	MWh	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PLNT Plant File (continued).

Field	Name	Description	Unit	Source(s)
89	PLGENASO	Plant annual solar net generation	MWh	
90	PLGENAGT	Plant annual geothermal net generation	MWh	
91	PLGENAOF	Plant annual other fossil net generation	MWh	
92	PLGENAOP	Plant annual other unknown/purchased fuel net generation	MWh	
93	PLGENATN	Plant annual total nonrenewables net generation	MWh	
94	PLGENATR	Plant annual total renewables net generation	MWh	
95	PLGENATH	Plant annual total nonhydro renewables net generation	MWh	
96	PLGENACY	Plant annual total combustion net generation	MWh	
97	PLGENACN	Plant annual total noncombustion net generation	MWh	
98	PLCLPR	Plant coal generation percent (resource mix)		
99	PLOLPR	Plant oil generation percent (resource mix)		
100	PLGSPR	Plant gas generation percent (resource mix)		
101	PLNCPR	Plant nuclear generation percent (resource mix)		
102	PLHYPR	Plant hydro generation percent (resource mix)		
103	PLBMPR	Plant biomass generation percent (resource mix)		
104	PLWIPR	Plant wind generation percent (resource mix)		
105	PLSOPR	Plant solar generation percent (resource mix)		
106	PLGTPR	Plant geothermal generation percent (resource mix)		
107	PLOFPR	Plant other fossil generation percent (resource mix)		
108	PLOPPR	Plant other unknown/purchased fuel generation percent (resource mix)		
109	PLTNPR	Plant total nonrenewables generation percent (resource mix)		
110	PLTRPR	Plant total renewables generation percent (resource mix)		
111	PLTHPR	Plant total nonhydro renewables generation percent (resource mix)		
112	PLCYPR	Plant total combustion generation percent (resource mix)		
113	PLCNPR	Plant total noncombustion generation percent (resource mix)		
114	OWNRNM01	Plant owner name (first)		EIA-860
115	OWNRUC01	Plant owner code (first)		EIA-860
116	OWNRPR01	Plant owner percent (first)		EIA-860
117	OWNRNM02	Plant owner name (second)		EIA-860
118	OWNRUC02	Plant owner code (second)		EIA-860
119	OWNRPR02	Plant owner percent (second)		EIA-860
120	OWNRNM03	Plant owner name (third)		EIA-860
121	OWNRUC03	Plant owner code (third)		EIA-860
122	OWNRPR03	Plant owner percent (third)		EIA-860
123	OWNRNM04	Plant owner name (fourth)		EIA-860
124	OWNRUC04	Plant owner code (fourth)		EIA-860
125	OWNRPR04	Plant owner percent (fourth)		EIA-860
126	OWNRNM05	Plant owner name (fifth)		EIA-860
127	OWNRUC05	Plant owner code (fifth)		EIA-860
128	OWNRPR05	Plant owner percent (fifth)		EIA-860
129	OWNRNM06	Plant owner name (sixth)		EIA-860
130	OWNRUC06	Plant owner code (sixth)		EIA-860
131	OWNRPR06	Plant owner percent (sixth)		EIA-860
132	OWNRNM07	Plant owner name (seventh)		EIA-860
133	OWNRUC07	Plant owner code (seventh)		EIA-860
134	OWNRPR07	Plant owner percent (seventh)		EIA-860

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PLNT Plant File (continued).

Field	Name	Description	Unit	Source(s)
135	OWNRNM08	Plant owner name (eighth)		EIA-860
136	OWNRUC08	Plant owner code (eighth)		EIA-860
137	OWNRPR08	Plant owner percent (eighth)		EIA-860
138	OWNRNM09	Plant owner name (ninth)		EIA-860
139	OWNRUC09	Plant owner code (ninth)		EIA-860
140	OWNRPR09	Plant owner percent (ninth)		EIA-860
141	OWNRNM10	Plant owner name (tenth)		EIA-860
142	OWNRUC10	Plant owner code (tenth)		EIA-860
143	OWNRPR10	Plant owner percent (tenth)		EIA-860
144	OWNRNM11	Plant owner name (eleventh)		EIA-860
145	OWNRUC11	Plant owner code (eleventh)		EIA-860
146	OWNRPR11	Plant owner percent (eleventh)		EIA-860
147	OWNRNM12	Plant owner name (twelfth)		EIA-860
148	OWNRUC12	Plant owner code (twelfth)		EIA-860
149	OWNRPR12	Plant owner percent (twelfth)		EIA-860
150	OWNRNM13	Plant owner name (thirteenth)		EIA-860
151	OWNRUC13	Plant owner code (thirteenth)		EIA-860
152	OWNRPR13	Plant owner percent (thirteenth)		EIA-860
153	OWNRNM14	Plant owner name (fourteenth)		EIA-860
154	OWNRUC14	Plant owner code (fourteenth)		EIA-860
155	OWNRPR14	Plant owner percent (fourteenth)		EIA-860
156	OWNRNM15	Plant owner name (fifteenth)		EIA-860
157	OWNRUC15	Plant owner code (fifteenth)		EIA-860
158	OWNRPR15	Plant owner percent (fifteenth)		EIA-860
159	OWNRNM16	Plant owner name (sixteenth)		EIA-860
160	OWNRUC16	Plant owner code (sixteenth)		EIA-860
161	OWNRPR16	Plant owner percent (sixteenth)		EIA-860 + updates EIA-860
162	SEQPLT04	eGRID2006 year 2004 file plant sequence number		
163	SEQPLT05	eGRID2007 year 2005 file plant sequence number		
164	SEQPLT07	eGRID2010 year 2007 file plant sequence number		

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 ST State File

Field	Name	Description	Unit
1	SEQST09	<i>eGRID2012 year 2009 file state sequence number</i>	
2	PSTATABB	State abbreviation	
3	FIP SST	FIPS state code	
4	NAMEPCAP	State nameplate capacity	MW
5	STHTIAN	State annual heat input	MMBtu
6	STHTIOZ	State ozone season heat input	MMBtu
7	STNGENAN	State annual net generation	MWh
8	STNGENOZ	State ozone season net generation	MWh
9	STNOXAN	State annual NO _x emissions	tons
10	STNOXOZ	State ozone season NO _x emissions	tons
11	STSO2AN	State annual SO ₂ emissions	tons
12	STCO2AN	State annual CO ₂ emissions	tons
13	STCH4AN	State annual CH ₄ emissions	lbs
14	STN2OAN	State annual N ₂ O emissions	lbs
15	STCO2EQA	State annual CO ₂ equivalent emissions	tons
16	STHGAN	State annual Hg emissions	lbs
17	STNOXRTA	State annual NO _x total output emission rate	lb/MWh
18	STNOXRTO	State ozone season NO _x total output emission rate	lb/MWh
19	STSO2RTA	State annual SO ₂ total output emission rate	lb/MWh
20	STCO2RTA	State annual CO ₂ total output emission rate	lb/MWh
21	STCH4RTA	State annual CH ₄ total output emission rate	lb/GWh
22	STN2ORTA	State annual N ₂ O total output emission rate	lb/GWh
23	STC2ERTA	State annual CO ₂ equivalent total output emission rate	lb/MWh
24	STHGRTA	State annual Hg total output emission rate	lb/GWh
25	STNOXRRA	State annual NO _x input emission rate	lb/MMBtu
26	STNOXRRO	State ozone season NO _x input emission rate	lb/MMBtu
27	STSO2RA	State annual SO ₂ input emission rate	lb/MMBtu
28	STCO2RA	State annual CO ₂ input emission rate	lb/MMBtu
29	STHGRTA	State annual Hg input emission rate	lb/BBtu
30	STNOXCRT	State annual NO _x combustion output emission rate	lb/MWh
31	STNOXCRO	State ozone season NO _x combustion output emission rate	lb/MWh
32	STSO2CRT	State annual SO ₂ combustion output emission rate	lb/MWh
33	STCO2CRT	State annual CO ₂ combustion output emission rate	lb/MWh
34	STCH4CRT	State annual CH ₄ combustion output emission rate	lb/GWh
35	STN2OCRT	State annual N ₂ O combustion output emission rate	lb/GWh
36	STHGCRT	State annual Hg combustion output emission rate	lb/GWh
37	STCNOXRT	State annual NO _x coal output emission rate	lb/MWh
38	STONOXRT	State annual NO _x oil output emission rate	lb/MWh
39	STGNOXRT	State annual NO _x gas output emission rate	lb/MWh
40	STFSNXRT	State annual NO _x fossil fuel output emission rate	lb/MWh
41	STCNXORT	State ozone season NO _x coal output emission rate	lb/MWh
42	STONXORT	State ozone season NO _x oil output emission rate	lb/MWh
43	STGNXORT	State ozone season NO _x gas output emission rate	lb/MWh
44	STFSNORT	State ozone season NO _x fossil fuel output emission rate	lb/MWh
45	STCSO2RT	State annual SO ₂ coal output emission rate	lb/MWh
46	STOSO2RT	State annual SO ₂ oil output emission rate	lb/MWh
47	STGSO2RT	State annual SO ₂ gas output emission rate	lb/MWh
48	STFSS2RT	State annual SO ₂ fossil fuel output emission rate	lb/MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 ST State File (continued).

Field	Name	Description	Unit
49	STCCO2RT	State annual CO ₂ coal output emission rate	lb/MWh
50	STOCO2RT	State annual CO ₂ oil output emission rate	lb/MWh
51	STGCO2RT	State annual CO ₂ gas output emission rate	lb/MWh
52	STFSC2RT	State annual CO ₂ fossil fuel output emission rate	lb/MWh
53	STCHGRT	State annual Hg coal output emission rate	lb/GWh
54	STFSHGRT	State annual Hg fossil fuel output emission rate	lb/GWh
55	STCNOXR	State annual NO _x coal input emission rate	lb/MMBtu
56	STONOXR	State annual NO _x oil input emission rate	lb/MMBtu
57	STGNOXR	State annual NO _x gas input emission rate	lb/MMBtu
58	STFSNXR	State annual NO _x fossil fuel input emission rate	lb/MMBtu
59	STCNXOR	State ozone season NO _x coal input emission rate	lb/MMBtu
60	STONXOR	State ozone season NO _x oil input emission rate	lb/MMBtu
61	STGNXOR	State ozone season NO _x gas input emission rate	lb/MMBtu
62	STFSNOR	State ozone season NO _x fossil fuel input emission rate	lb/MMBtu
63	STCSO2R	State annual SO ₂ coal input emission rate	lb/MMBtu
64	STOSO2R	State annual SO ₂ oil input emission rate	lb/MMBtu
65	STGSO2R	State annual SO ₂ gas input emission rate	lb/MMBtu
66	STFSS2R	State annual SO ₂ fossil fuel input emission rate	lb/MMBtu
67	STCCO2R	State annual CO ₂ coal input emission rate	lb/MMBtu
68	STOCO2R	State annual CO ₂ oil input emission rate	lb/MMBtu
69	STGCO2R	State annual CO ₂ gas input emission rate	lb/MMBtu
70	STFSC2R	State annual CO ₂ fossil fuel input emission rate	lb/MMBtu
71	STCHGR	State annual Hg coal input emission rate	lb/BBtu
72	STFSHGR	State annual Hg fossil fuel input emission rate	lb/BBtu
73	STNBNOX	State annual NO _x non-baseload output emission rate	lb/MWh
74	STNBNOXO	State ozone season NO _x non-baseload output emission rate	lb/MWh
75	STNBSO2	State annual SO ₂ non-baseload output emission rate	lb/MWh
76	STNBCO2	State annual CO ₂ non-baseload output emission rate	lb/MWh
77	STNBCH4	State annual CH ₄ non-baseload output emission rate	lb/GWh
78	STNBN2O	State annual N ₂ O non-baseload output emission rate	lb/GWh
79	STNBHG	State annual Hg non-baseload output emission rate	lb/GWh
80	STGENACL	State annual coal net generation	MWh
81	STGENAOL	State annual oil net generation	MWh
82	STGENAGS	State annual gas net generation	MWh
83	STGENANC	State annual nuclear net generation	MWh
84	STGENAHY	State annual hydro net generation	MWh
85	STGENABM	State annual biomass net generation	MWh
86	STGENAWI	State annual wind net generation	MWh
87	STGENASO	State annual solar net generation	MWh
88	STGENAGT	State annual geothermal net generation	MWh
89	STGENAOF	State annual other fossil net generation	MWh
90	STGENAOP	State annual other unknown/purchased fuel net generation	MWh
91	STGENATN	State annual total nonrenewables net generation	MWh
92	STGENATR	State annual total renewables net generation	MWh
93	STGENATH	State annual total nonhydro renewables net generation	MWh
94	STGENACY	State annual total combustion net generation	MWh
95	STGENACN	State annual total noncombustion net generation	MWh
96	STCLPR	State coal generation percent (resource mix)	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 ST State File (continued).

Field	Name	Description	Unit
97	STOLPR	State oil generation percent (resource mix)	
98	STGSPR	State gas generation percent (resource mix)	
99	STNCPR	State nuclear generation percent (resource mix)	
100	STHYPR	State hydro generation percent (resource mix)	
101	STBMPR	State biomass generation percent (resource mix)	
102	STWIPR	State wind generation percent (resource mix)	
103	STSOPR	State solar generation percent (resource mix)	
104	STGTPR	State geothermal generation percent (resource mix)	
105	STOFPR	State other fossil generation percent (resource mix)	
106	STOPPR	State other unknown/purchased fuel generation percent (resource mix)	
107	STTNPR	State total nonrenewables generation percent (resource mix)	
108	STTRPR	State total renewables generation percent (resource mix)	
109	STTHPR	State total nonhydro renewables generation percent (resource mix)	
110	STCYPR	State total combustion generation percent (resource mix)	
111	STCNPR	State total noncombustion generation percent (resource mix)	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PCAL File
Power Control Area (PCA) File

Field	Name	Description	Unit
1	SEQPCL09	eGRID2012 year 2009 file PCA sequence number	
2	PCAIID	PCA ID	
3	PCANAME	PCA name	
4	NAMEPCAP	PCA nameplate capacity	MW
5	PCHTIAN	PCA annual heat input	MMBtu
6	PCHTIOZ	PCA ozone season heat input	MMBtu
7	PCNGENAN	PCA annual net generation	MWh
8	PCNGENOZ	PCA ozone season net generation	MWh
9	PCNOXAN	PCA annual NO _x emissions	tons
10	PCNOXOZ	PCA ozone season NO _x emissions	tons
11	PCSO2AN	PCA annual SO ₂ emissions	tons
12	PCCO2AN	PCA annual CO ₂ emissions	tons
13	PCCH4AN	PCA annual CH ₄ emissions	lbs
14	PCN2OAN	PCA annual N ₂ O emissions	lbs
15	PCCO2EQA	PCA annual CO ₂ equivalent emissions	tons
16	PCHGAN	PCA annual Hg emissions	lbs
17	PCNOXRTA	PCA annual NO _x total output emission rate	lb/MWh
18	PCNOXRTO	PCA ozone season NO _x total output emission rate	lb/MWh
19	PCSO2RTA	PCA annual SO ₂ total output emission rate	lb/MWh
20	PCCO2RTA	PCA annual CO ₂ total output emission rate	lb/MWh
21	PCCH4RTA	PCA annual CH ₄ total output emission rate	lb/GWh
22	PCN2ORTA	PCA annual N ₂ O total output emission rate	lb/GWh
23	PCC2ERTA	PCA annual CO ₂ equivalent total output emission rate	lb/MWh
24	PCHGRTA	PCA annual Hg total output emission rate	lb/GWh
25	PCNOXRA	PCA annual NO _x input emission rate	lb/MMBtu
26	PCNOXRO	PCA ozone season NO _x input emission rate	lb/MMBtu
27	PCSO2RA	PCA annual SO ₂ input emission rate	lb/MMBtu
28	PCCO2RA	PCA annual CO ₂ input emission rate	lb/MMBtu
29	PCHGRA	PCA annual Hg input emission rate	lb/BBtu
30	PCNOXCRT	PCA annual NO _x combustion output emission rate	lb/MWh
31	PCNOXCRO	PCA ozone season NO _x combustion output emission rate	lb/MWh
32	PCSO2CRT	PCA annual SO ₂ combustion output emission rate	lb/MWh
33	PCCO2CRT	PCA annual CO ₂ combustion output emission rate	lb/MWh
34	PCCH4CRT	PCA annual CH ₄ combustion output emission rate	lb/GWh
35	PCN2OCRT	PCA annual N ₂ O combustion output emission rate	lb/GWh
36	PCHGCRT	PCA annual Hg combustion output emission rate	lb/GWh
37	PCCNOXRT	PCA annual NO _x coal output emission rate	lb/MWh
38	PCONOXRT	PCA annual NO _x oil output emission rate	lb/MWh
39	PCGNOXRT	PCA annual NO _x gas output emission rate	lb/MWh
40	PCFSNXRT	PCA annual NO _x fossil fuel output emission rate	lb/MWh
41	PCCNXORT	PCA ozone season NO _x coal output emission rate	lb/MWh
42	PCONXORT	PCA ozone season NO _x oil output emission rate	lb/MWh
43	PCGNXORT	PCA ozone season NO _x gas output emission rate	lb/MWh
44	PCFSNORT	PCA ozone season NO _x fossil fuel output emission rate	lb/MWh
45	PCCSO2RT	PCA annual SO ₂ coal output emission rate	lb/MWh
46	PCOSO2RT	PCA annual SO ₂ oil output emission rate	lb/MWh
47	PCGSO2RT	PCA annual SO ₂ gas output emission rate	lb/MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PCAL File
Power Control Area (PCA) File (continued).

Field	Name	Description	Unit
48	PCFSS2RT	PCA annual SO ₂ fossil fuel output emission rate	lb/MWh
49	PCCCO2RT	PCA annual CO ₂ coal output emission rate	lb/MWh
50	PCOCO2RT	PCA annual CO ₂ oil output emission rate	lb/MWh
51	PCGCO2RT	PCA annual CO ₂ gas output emission rate	lb/MWh
52	PCFSC2RT	PCA annual CO ₂ fossil fuel output emission rate	lb/MWh
53	PCCHGRT	PCA annual Hg coal output emission rate	lb/GWh
54	PCFSHGRT	PCA annual Hg fossil fuel output emission rate	lb/GWh
55	PCCNOXR	PCA annual NO _x coal input emission rate	lb/MMBtu
56	PCONOXR	PCA annual NO _x oil input emission rate	lb/MMBtu
57	PCGNOXR	PCA annual NO _x gas input emission rate	lb/MMBtu
58	PCFSNXR	PCA annual NO _x fossil fuel input emission rate	lb/MMBtu
59	PCCNXOR	PCA ozone season NO _x coal input emission rate	lb/MMBtu
60	PCONXOR	PCA ozone season NO _x oil input emission rate	lb/MMBtu
61	PCGNXOR	PCA ozone season NO _x gas input emission rate	lb/MMBtu
62	PCFSNOR	PCA ozone season NO _x fossil fuel input emission rate	lb/MMBtu
63	PCCSO2R	PCA annual SO ₂ coal input emission rate	lb/MMBtu
64	PCOSO2R	PCA annual SO ₂ oil input emission rate	lb/MMBtu
65	PCGSO2R	PCA annual SO ₂ gas input emission rate	lb/MMBtu
66	PCFSS2R	PCA annual SO ₂ fossil fuel input emission rate	lb/MMBtu
67	PCCCO2R	PCA annual CO ₂ coal input emission rate	lb/MMBtu
68	PCOCO2R	PCA annual CO ₂ oil input emission rate	lb/MMBtu
69	PCGCO2R	PCA annual CO ₂ gas input emission rate	lb/MMBtu
70	PCFSC2R	PCA annual CO ₂ fossil fuel input emission rate	lb/MMBtu
71	PCCHGR	PCA annual Hg coal input emission rate	lb/BBtu
72	PCFSHGR	PCA annual Hg fossil fuel input emission rate	lb/BBtu
73	PCNBNOX	PCA annual NO _x non-baseload output emission rate	lb/MWh
74	PCNBNOXO	PCA ozone season NO _x non-baseload output emission rate	lb/MWh
75	PCNBNO2	PCA annual SO ₂ non-baseload output emission rate	lb/MWh
76	PCNBNO2	PCA annual CO ₂ non-baseload output emission rate	lb/MWh
77	PCNBCH4	PCA annual CH ₄ non-baseload output emission rate	lb/GWh
78	PCNBNO2O	PCA annual N ₂ O non-baseload output emission rate	lb/GWh
79	PCNBHG	PCA annual Hg non-baseload output emission rate	lb/GWh
80	PCGENACL	PCA annual coal net generation	MWh
81	PCGENAOL	PCA annual oil net generation	MWh
82	PCGENAGS	PCA annual gas net generation	MWh
83	PCGENANC	PCA annual nuclear net generation	MWh
84	PCGENAHY	PCA annual hydro net generation	MWh
85	PCGENABM	PCA annual biomass net generation	MWh
86	PCGENAWI	PCA annual wind net generation	MWh
87	PCGENASO	PCA annual solar net generation	MWh
88	PCGENAGT	PCA annual geothermal net generation	MWh
89	PCGENAOF	PCA annual other fossil net generation	MWh
90	PCGENAOP	PCA annual other unknown/purchased fuel net generation	MWh
91	PCGENATN	PCA annual total nonrenewables net generation	MWh
92	PCGENATR	PCA annual total renewables net generation	MWh
93	PCGENATH	PCA annual total nonhydro renewables net generation	MWh
94	PCGENACY	PCA annual total combustion net generation	MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 PCAL File
Power Control Area (PCA) File (continued).

Field	Name	Description	Unit
95	PCGENACN	PCA annual total noncombustion net generation	MWh
96	PCCLPR	PCA coal generation percent (resource mix)	
97	PCOLPR	PCA oil generation percent (resource mix)	
98	PCGSPR	PCA gas generation percent (resource mix)	
99	PCNCPR	PCA nuclear generation percent (resource mix)	
100	PCHYPR	PCA hydro generation percent (resource mix)	
101	PCBMPR	PCA biomass generation percent (resource mix)	
102	PCWIPR	PCA wind generation percent (resource mix)	
103	PCSOPR	PCA solar generation percent (resource mix)	
104	PCGTPR	PCA geothermal generation percent (resource mix)	
105	PCOFPR	PCA other fossil generation percent (resource mix)	
106	PCOPPR	PCA other unknown/purchased fuel generation percent (resource mix)	
107	PCTNPR	PCA total nonrenewables generation percent (resource mix)	
108	PCTRPR	PCA total renewables generation percent (resource mix)	
109	PCTHPR	PCA total nonhydro renewables generation percent (resource mix)	
110	PCCYPR	PCA total combustion generation percent (resource mix)	
111	PCCNPR	PCA total noncombustion generation percent (resource mix)	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 SRL File
eGRID Subregion File

Field	Name	Description	Unit
1	SEQSRL09	eGRID2012 year 2009 file eGRID subregion sequence number	
2	SUBRGN	eGRID subregion acronym	
3	SRNAME	eGRID subregion name	
4	NERC	NERC region acronym associated with the eGRID subregion acronym	
5	NAMEPCAP	eGRID subregion nameplate capacity	MW
6	SRHTIAN	eGRID subregion annual heat input	MMBtu
7	SRHTIOZ	eGRID subregion ozone season heat input	MMBtu
8	SRNGENAN	eGRID subregion annual net generation	MWh
9	SRNGENOZ	eGRID subregion ozone season net generation	MWh
10	SRNOXAN	eGRID subregion annual NO _x emissions	tons
11	SRNOXOZ	eGRID subregion ozone season NO _x emissions	tons
12	SRSO2AN	eGRID subregion annual SO ₂ emissions	tons
13	SRCO2AN	eGRID subregion annual CO ₂ emissions	tons
14	SRCH4AN	eGRID subregion annual CH ₄ emissions	lbs
15	SRN2OAN	eGRID subregion annual N ₂ O emissions	lbs
16	SRCO2EQA	eGRID subregion annual CO ₂ equivalent emissions	tons
17	SRHGAN	eGRID subregion annual Hg emissions	lbs
18	SRNOXRTA	eGRID subregion annual NO _x total output emission rate	lb/MWh
19	SRNOXRTO	eGRID subregion ozone season NO _x total output emission rate	lb/MWh
20	SRSO2RTA	eGRID subregion annual SO ₂ total output emission rate	lb/MWh
21	SRCO2RTA	eGRID subregion annual CO ₂ total output emission rate	lb/MWh
22	SRCH4RTA	eGRID subregion annual CH ₄ total output emission rate	lb/GWh
23	SRN2ORTA	eGRID subregion annual N ₂ O total output emission rate	lb/GWh
24	SRC2ERTA	eGRID subregion annual CO ₂ equivalent total output emission rate	lb/MWh
25	SRHGRTA	eGRID subregion annual Hg total output emission rate	lb/GWh
26	SRNOXRRA	eGRID subregion annual NO _x input emission rate	lb/MMBtu
27	SRNOXCRO	eGRID subregion ozone season NO _x input emission rate	lb/MMBtu
28	SRSO2RA	eGRID subregion annual SO ₂ input emission rate	lb/MMBtu
29	SRCO2RA	eGRID subregion annual CO ₂ input emission rate	lb/MMBtu
30	SRHGRTA	eGRID subregion annual Hg input emission rate	lb/BBtu
31	SRNOXCRT	eGRID subregion annual NO _x combustion output emission rate	lb/MWh
32	SRNOXCRO	eGRID subregion ozone season NO _x combustion output emission rate	lb/MWh
33	SRSO2CRT	eGRID subregion annual SO ₂ combustion output emission rate	lb/MWh
34	SRCO2CRT	eGRID subregion annual CO ₂ combustion output emission rate	lb/MWh
35	SRCH4CRT	eGRID subregion annual CH ₄ combustion output emission rate	lb/GWh
36	SRN2OCRT	eGRID subregion annual N ₂ O combustion output emission rate	lb/GWh
37	SRHGCRT	eGRID subregion annual Hg combustion output emission rate	lb/GWh
38	SRCNOXRT	eGRID subregion annual NO _x coal output emission rate	lb/MWh
39	SRONOXRT	eGRID subregion annual NO _x oil output emission rate	lb/MWh
40	SRGNOXRT	eGRID subregion annual NO _x gas output emission rate	lb/MWh
41	SRFSNXRT	eGRID subregion annual NO _x fossil fuel output emission rate	lb/MWh
42	SRCNXORT	eGRID subregion ozone season NO _x coal output emission rate	lb/MWh
43	SRONXORT	eGRID subregion ozone season NO _x oil output emission rate	lb/MWh
44	SRGNXORT	eGRID subregion ozone season NO _x gas output emission rate	lb/MWh
45	SRFSNORT	eGRID subregion ozone season NO _x fossil fuel output emission rate	lb/MWh
46	SRCO2RT	eGRID subregion annual SO ₂ coal output emission rate	lb/MWh
47	SROSO2RT	eGRID subregion annual SO ₂ oil output emission rate	lb/MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 SRL File
eGRID Subregion File (continued).

Field	Name	Description	Unit
48	SRGSO2RT	eGRID subregion annual SO ₂ gas output emission rate	lb/MWh
49	SRFSS2RT	eGRID subregion annual SO ₂ fossil fuel output emission rate	lb/MWh
50	SRCCO2RT	eGRID subregion annual CO ₂ coal output emission rate	lb/MWh
51	SROCO2RT	eGRID subregion annual CO ₂ oil output emission rate	lb/MWh
52	SRGCO2RT	eGRID subregion annual CO ₂ gas output emission rate	lb/MWh
53	SRFSC2RT	eGRID subregion annual CO ₂ fossil fuel output emission rate	lb/MWh
54	SRCHGRT	eGRID subregion annual Hg coal output emission rate	lb/GWh
55	SRFSHGRT	eGRID subregion annual Hg fossil fuel output emission rate	lb/GWh
56	SRCNOXR	eGRID subregion annual NO _x coal input emission rate	lb/MMBtu
57	SRONOXR	eGRID subregion annual NO _x oil input emission rate	lb/MMBtu
58	SRGNOXR	eGRID subregion annual NO _x gas input emission rate	lb/MMBtu
59	SRFSNXR	eGRID subregion annual NO _x fossil fuel input emission rate	lb/MMBtu
60	SRCNXOR	eGRID subregion ozone season NO _x coal input emission rate	lb/MMBtu
61	SRONXOR	eGRID subregion ozone season NO _x oil input emission rate	lb/MMBtu
62	SRGNXOR	eGRID subregion ozone season NO _x gas input emission rate	lb/MMBtu
63	SRFSNOR	eGRID subregion ozone season NO _x fossil fuel input emission rate	lb/MMBtu
64	SRCO2R	eGRID subregion annual SO ₂ coal input emission rate	lb/MMBtu
65	SROO2R	eGRID subregion annual SO ₂ oil input emission rate	lb/MMBtu
66	SRGSO2R	eGRID subregion annual SO ₂ gas input emission rate	lb/MMBtu
67	SRFSS2R	eGRID subregion annual SO ₂ fossil fuel input emission rate	lb/MMBtu
68	SRCCO2R	eGRID subregion annual CO ₂ coal input emission rate	lb/MMBtu
69	SROCO2R	eGRID subregion annual CO ₂ oil input emission rate	lb/MMBtu
70	SRGCO2R	eGRID subregion annual CO ₂ gas input emission rate	lb/MMBtu
71	SRFSC2R	eGRID subregion annual CO ₂ fossil fuel input emission rate	lb/MMBtu
72	SRCHGR	eGRID subregion annual Hg coal input emission rate	lb/BBtu
73	SRFSHGR	eGRID subregion annual Hg fossil fuel input emission rate	lb/BBtu
74	SRNBNOX	eGRID subregion annual NO _x non-baseload output emission rate	lb/MWh
75	SRNBNOXO	eGRID subregion ozone season NO _x non-baseload output emission rate	lb/MWh
76	SRNBSO2	eGRID subregion annual SO ₂ non-baseload output emission rate	lb/MWh
77	SRNBCO2	eGRID subregion annual CO ₂ non-baseload output emission rate	lb/MWh
78	SRNBCH4	eGRID subregion annual CH ₄ non-baseload output emission rate	lb/GWh
79	SRBN2O	eGRID subregion annual N ₂ O non-baseload output emission rate	lb/GWh
80	SRNBC2ER	eGRID subregion annual CO ₂ equivalent non-baseload output emission rate	lb/MWh
81	SRNBHG	eGRID subregion annual Hg non-baseload output emission rate	lb/GWh
82	SRGENACL	eGRID subregion annual coal net generation	MWh
83	SRGENAOL	eGRID subregion annual oil net generation	MWh
84	SRGENAGS	eGRID subregion annual gas net generation	MWh
85	SRGENANC	eGRID subregion annual nuclear net generation	MWh
86	SRGENAHY	eGRID subregion annual hydro net generation	MWh
87	SRGENABM	eGRID subregion annual biomass net generation	MWh
88	SRGENAWI	eGRID subregion annual wind net generation	MWh
89	SRGENASO	eGRID subregion annual solar net generation	MWh
90	SRGENAGT	eGRID subregion annual geothermal net generation	MWh
91	SRGENAOF	eGRID subregion annual other fossil net generation	MWh
92	SRGENAOP	eGRID subregion annual other unknown/purchased fuel net generation	MWh
93	SRGENATN	eGRID subregion annual total nonrenewables net generation	MWh
94	SRGENATR	eGRID subregion annual total renewables net generation	MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 SRL File
eGRID Subregion File (continued).

Field	Name	Description	Unit
95	SRGENATH	eGRID subregion annual total nonhydro renewables net generation	MWh
96	SRGENACY	eGRID subregion annual total combustion net generation	MWh
97	SRGENACN	eGRID subregion annual total noncombustion net generation	MWh
98	SRCLPR	eGRID subregion coal generation percent (resource mix)	
99	SROLPR	eGRID subregion oil generation percent (resource mix)	
100	SRGSPR	eGRID subregion gas generation percent (resource mix)	
101	SRNCPR	eGRID subregion nuclear generation percent (resource mix)	
102	SRHYPR	eGRID subregion hydro generation percent (resource mix)	
103	SRBMPR	eGRID subregion biomass generation percent (resource mix)	
104	SRWIPR	eGRID subregion wind generation percent (resource mix)	
105	SRSOPR	eGRID subregion solar generation percent (resource mix)	
106	SRGTPR	eGRID subregion geothermal generation percent (resource mix)	
107	SROFPR	eGRID subregion other fossil generation percent (resource mix)	
108	SROPPR	eGRID subregion other unknown/purchased fuel generation percent (resource mix)	
109	SRTNPR	eGRID subregion total nonrenewables generation percent (resource mix)	
110	SRTRPR	eGRID subregion total renewables generation percent (resource mix)	
111	SRTHPR	eGRID subregion total nonhydro renewables generation percent (resource mix)	
112	SRCYPR	eGRID subregion total combustion generation percent (resource mix)	
113	SRCNPR	eGRID subregion total noncombustion generation percent (resource mix)	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 NRL File
NERC Region File

Field	Name	Description	Unit
1	SEQNRL09	eGRID2012 year 2009 file NERC region sequence number	
2	NERC	NERC region acronym	
3	NERCNAME	NERC region name	
4	NAMEPCAP	NERC region nameplate capacity	MW
5	NRHTIAN	NERC region annual heat input	MMBtu
6	NRHTIOZ	NERC region ozone season heat input	MMBtu
7	NRNGENAN	NERC region annual net generation	MWh
8	NRNGENOZ	NERC region ozone season net generation	MWh
9	NRNOXAN	NERC region annual NO _x emissions	tons
10	NRNOXOZ	NERC region ozone season NO _x emissions	tons
11	NRSO2AN	NERC region annual SO ₂ emissions	tons
12	NRCO2AN	NERC region annual CO ₂ emissions	tons
13	NRCH4AN	NERC region annual CH ₄ emissions	lbs
14	NRN2OAN	NERC region annual N ₂ O emissions	lbs
15	NRCO2EQA	NERC region annual CO ₂ equivalent emissions	tons
16	NRHGAN	NERC region annual Hg emissions	lbs
17	NRNOXRTA	NERC region annual NO _x total output emission rate	lb/MWh
18	NRNOXRTO	NERC region ozone season NO _x total output emission rate	lb/MWh
19	NRSO2RTA	NERC region annual SO ₂ total output emission rate	lb/MWh
20	NRCO2RTA	NERC region annual CO ₂ total output emission rate	lb/MWh
21	NRCH4RTA	NERC region annual CH ₄ total output emission rate	lb/GWh
22	NRN2ORTA	NERC region annual N ₂ O total output emission rate	lb/GWh
23	NRC2ERTA	NERC region annual CO ₂ equivalent total output emission rate	lb/MWh
24	NRHGRTA	NERC region annual Hg total output emission rate	lb/GWh
25	NRNOXRRA	NERC region annual NO _x input emission rate	lb/MMBtu
26	NRNOXRO	NERC region ozone season NO _x input emission rate	lb/MMBtu
27	NRSO2RA	NERC region annual SO ₂ input emission rate	lb/MMBtu
28	NRCO2RA	NERC region annual CO ₂ input emission rate	lb/MMBtu
29	NRHGRTA	NERC region annual Hg input emission rate	lb/BBtu
30	NRNOXCRT	NERC region annual NO _x combustion output emission rate	lb/MWh
31	NRNOXCRO	NERC region ozone season NO _x combustion output emission rate	lb/MWh
32	NRSO2CRT	NERC region annual SO ₂ combustion output emission rate	lb/MWh
33	NRCO2CRT	NERC region annual CO ₂ combustion output emission rate	lb/MWh
34	NRCH4CRT	NERC region annual CH ₄ combustion output emission rate	lb/GWh
35	NRN2OCRT	NERC region annual N ₂ O combustion output emission rate	lb/GWh
36	NRHGCRT	NERC region annual Hg combustion output emission rate	lb/GWh
37	NRCNOXRT	NERC region annual NO _x coal output emission rate	lb/MWh
38	NRONOXRT	NERC region annual NO _x oil output emission rate	lb/MWh
39	NRGNXRT	NERC region annual NO _x gas output emission rate	lb/MWh
40	NRFSNXRT	NERC region annual NO _x fossil fuel output emission rate	lb/MWh
41	NRCNXORT	NERC region ozone season NO _x coal output emission rate	lb/MWh
42	NRONXORT	NERC region ozone season NO _x oil output emission rate	lb/MWh
43	NRGNXORT	NERC region ozone season NO _x gas output emission rate	lb/MWh
44	NRFSNORT	NERC region ozone season NO _x fossil fuel output emission rate	lb/MWh
45	NRCO2RT	NERC region annual SO ₂ coal output emission rate	lb/MWh
46	NROSO2RT	NERC region annual SO ₂ oil output emission rate	lb/MWh
47	NRGSO2RT	NERC region annual SO ₂ gas output emission rate	lb/MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 NRL File
NERC Region File (continued).

Field	Name	Description	Unit
48	NRFSS2RT	NERC region annual SO ₂ fossil fuel output emission rate	lb/MWh
49	NRCCO2RT	NERC region annual CO ₂ coal output emission rate	lb/MWh
50	NROCO2RT	NERC region annual CO ₂ oil output emission rate	lb/MWh
51	NRGCO2RT	NERC region annual CO ₂ gas output emission rate	lb/MWh
52	NRFSC2RT	NERC region annual CO ₂ fossil fuel output emission rate	lb/MWh
53	NRCHGRT	NERC region annual Hg coal output emission rate	lb/GWh
54	NRFSHGRT	NERC region annual Hg fossil fuel output emission rate	lb/GWh
55	NRCNOXR	NERC region annual NO _x coal input emission rate	lb/MMBtu
56	NRONOXR	NERC region annual NO _x oil input emission rate	lb/MMBtu
57	NRGNOXR	NERC region annual NO _x gas input emission rate	lb/MMBtu
58	NRFSNXR	NERC region annual NO _x fossil fuel input emission rate	lb/MMBtu
59	NRCNXOR	NERC region ozone season NO _x coal input emission rate	lb/MMBtu
60	NRONXOR	NERC region ozone season NO _x oil input emission rate	lb/MMBtu
61	NRGNXOR	NERC region ozone season NO _x gas input emission rate	lb/MMBtu
62	NRFSNOR	NERC region ozone season NO _x fossil fuel input emission rate	lb/MMBtu
63	NRCO2R	NERC region annual SO ₂ coal input emission rate	lb/MMBtu
64	NROO2R	NERC region annual SO ₂ oil input emission rate	lb/MMBtu
65	NRGO2R	NERC region annual SO ₂ gas input emission rate	lb/MMBtu
66	NRFSS2R	NERC region annual SO ₂ fossil fuel input emission rate	lb/MMBtu
67	NRCCO2R	NERC region annual CO ₂ coal input emission rate	lb/MMBtu
68	NROCO2R	NERC region annual CO ₂ oil input emission rate	lb/MMBtu
69	NRGCO2R	NERC region annual CO ₂ gas input emission rate	lb/MMBtu
70	NRFSC2R	NERC region annual CO ₂ fossil fuel input emission rate	lb/MMBtu
71	NRCHGR	NERC region annual Hg coal input emission rate	lb/BBtu
72	NRFSHGR	NERC region annual Hg fossil fuel input emission rate	lb/BBtu
73	NRNBNOX	NERC region annual NO _x non-baseload output emission rate	lb/MWh
74	NRNBNOXO	NERC region ozone season NO _x non-baseload output emission rate	lb/MWh
75	NRNBNO2	NERC region annual SO ₂ non-baseload output emission rate	lb/MWh
76	NRNBNO2	NERC region annual CO ₂ non-baseload output emission rate	lb/MWh
77	NRNBCH4	NERC region annual CH ₄ non-baseload output emission rate	lb/GWh
78	NRNBNO2O	NERC region annual N ₂ O non-baseload output emission rate	lb/GWh
79	NRNBHGH	NERC region annual Hg non-baseload output emission rate	lb/GWh
80	NRGENACL	NERC region annual coal net generation	MWh
81	NRGENAOL	NERC region annual oil net generation	MWh
82	NRGENAGS	NERC region annual gas net generation	MWh
83	NRGENANC	NERC region annual nuclear net generation	MWh
84	NRGENAHY	NERC region annual hydro net generation	MWh
85	NRGENABM	NERC region annual biomass net generation	MWh
86	NRGENAWI	NERC region annual wind net generation	MWh
87	NRGENASO	NERC region annual solar net generation	MWh
88	NRGENAGT	NERC region annual geothermal net generation	MWh
89	NRGENAOF	NERC region annual other fossil net generation	MWh
90	NRGENAOP	NERC region annual other unknown/purchased fuel net generation	MWh
91	NRGENATN	NERC region annual total nonrenewables net generation	MWh
92	NRGENATR	NERC region annual total renewables net generation	MWh
93	NRGENATH	NERC region annual total nonhydro renewables net generation	MWh
94	NRGENACY	NERC region annual total combustion net generation	MWh

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 NRL File
NERC Region File (continued).

Field	Name	Description	Unit
95	NRGENACN	NERC region annual total noncombustion net generation	MWh
96	NRCLPR	NERC region coal generation percent (resource mix)	
97	NROLPR	NERC region oil generation percent (resource mix)	
98	NRGSPR	NERC region gas generation percent (resource mix)	
99	NRNCPR	NERC region nuclear generation percent (resource mix)	
100	NRHYPR	NERC region hydro generation percent (resource mix)	
101	NRBMPR	NERC region biomass generation percent (resource mix)	
102	NRWIPR	NERC region wind generation percent (resource mix)	
103	NRSOPR	NERC region solar generation percent (resource mix)	
104	NRGTPR	NERC region geothermal generation percent (resource mix)	
105	NROFPR	NERC region other fossil generation percent (resource mix)	
106	NROPPR	NERC region other unknown/purchased fuel generation percent (resource mix)	
107	NRTNPR	NERC region total nonrenewables generation percent (resource mix)	
108	NRTRPR	NERC region total renewables generation percent (resource mix)	
109	NRTHPR	NERC region total nonhydro renewables generation percent (resource mix)	
110	NRCYPR	NERC region total combustion generation percent (resource mix)	
111	NRCNPR	NERC region total noncombustion generation percent (resource mix)	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 U.S. File
United States File

Field	Name	Description	Unit	Source(s)
1	SEQUS09	<i>eGRID2012 year 2009 file U.S. sequence number</i>		
2	NAMEPCAP	U.S. nameplate capacity	MW	
3	USHTIAN	U.S. annual heat input	MMBtu	
4	USHTIOZ	U.S. ozone season heat input	MMBtu	
5	USNGENAN	U.S. annual net generation	MWh	
6	USNGENOZ	U.S. ozone season net generation	MWh	
7	USNOXAN	U.S. annual NO _x emissions	tons	
8	USNOXOZ	U.S. ozone season NO _x emissions	tons	
9	USSO2AN	U.S. annual SO ₂ emissions	tons	
10	USCO2AN	U.S. annual CO ₂ emissions	tons	
11	USCH4AN	U.S. annual CH ₄ emissions	lbs	
12	USN2OAN	U.S. annual N ₂ O emissions	lbs	
13	USCO2EQA	U.S. annual CO ₂ equivalent emissions	tons	
14	USHGAN	U.S. annual Hg emissions	lbs	
15	USNOXRTA	U.S. annual NO _x total output emission rate	lb/MWh	
16	USNOXRTO	U.S. ozone season NO _x total output emission rate	lb/MWh	
17	USSO2RTA	U.S. annual SO ₂ total output emission rate	lb/MWh	
18	USCO2RTA	U.S. annual CO ₂ total output emission rate	lb/MWh	
19	USCH4RTA	U.S. annual CH ₄ total output emission rate	lb/GWh	
20	USN2ORTA	U.S. annual N ₂ O total output emission rate	lb/GWh	
21	USC2ERTA	U.S. annual CO ₂ equivalent total output emission rate	lb/MWh	
22	USHGRTA	U.S. annual Hg total output emission rate	lb/GWh	
23	USNOXRA	U.S. annual NO _x input emission rate	lb/MMBtu	
24	USNOXRO	U.S. ozone season NO _x input emission rate	lb/MMBtu	
25	USSO2RA	U.S. annual SO ₂ input emission rate	lb/MMBtu	
26	USCO2RA	U.S. annual CO ₂ input emission rate	lb/MMBtu	
27	USHGRA	U.S. annual Hg input emission rate	lb/BBtu	
28	USNOXCRT	U.S. annual NO _x combustion output emission rate	lb/MWh	
29	USNOXCRO	U.S. ozone season NO _x combustion output emission rate	lb/MWh	
30	USSO2CRT	U.S. annual SO ₂ combustion output emission rate	lb/MWh	
31	USCO2CRT	U.S. annual CO ₂ combustion output emission rate	lb/MWh	
32	USCH4CRT	U.S. annual CH ₄ combustion output emission rate	lb/GWh	
33	USN2OCRT	U.S. annual N ₂ O combustion output emission rate	lb/GWh	
34	USHGCRT	U.S. annual Hg combustion output emission rate	lb/GWh	
35	USCNOXRT	U.S. annual NO _x coal output emission rate	lb/MWh	
36	USONOXRT	U.S. annual NO _x oil output emission rate	lb/MWh	
37	USGNOXRT	U.S. annual NO _x gas output emission rate	lb/MWh	
38	USFSNXRT	U.S. annual NO _x fossil fuel output emission rate	lb/MWh	
39	USCNXORT	U.S. ozone season NO _x coal output emission rate	lb/MWh	
40	USONXORT	U.S. ozone season NO _x oil output emission rate	lb/MWh	
41	USGNXORT	U.S. ozone season NO _x gas output emission rate	lb/MWh	
42	USFSNORT	U.S. ozone season NO _x fossil fuel output emission rate	lb/MWh	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 U.S. File
United States File (continued).

Field	Name	Description	Unit	Source(s)
43	USCSO2RT	U.S. annual SO ₂ coal output emission rate	lb/MWh	
44	USOSO2RT	U.S. annual SO ₂ oil output emission rate	lb/MWh	
45	USGSO2RT	U.S. annual SO ₂ gas output emission rate	lb/MWh	
46	USFSS2RT	U.S. annual SO ₂ fossil fuel output emission rate	lb/MWh	
47	USCCO2RT	U.S. annual CO ₂ coal output emission rate	lb/MWh	
48	USOCO2RT	U.S. annual CO ₂ oil output emission rate	lb/MWh	
49	USGCO2RT	U.S. annual CO ₂ gas output emission rate	lb/MWh	
50	USFSC2RT	U.S. annual CO ₂ fossil fuel output emission rate	lb/MWh	
51	USCHGRT	U.S. annual Hg coal output emission rate	lb/GWh	
52	USFSHGRT	U.S. annual Hg fossil fuel output emission rate	lb/GWh	
53	USCNOXR	U.S. annual NO _x coal input emission rate	lb/MMBtu	
54	USONOXR	U.S. annual NO _x oil input emission rate	lb/MMBtu	
55	USGNOXR	U.S. annual NO _x gas input emission rate	lb/MMBtu	
56	USFSNXR	U.S. annual NO _x fossil fuel input emission rate	lb/MMBtu	
57	USCNXOR	U.S. ozone season NO _x coal input emission rate	lb/MMBtu	
58	USONXOR	U.S. ozone season NO _x oil input emission rate	lb/MMBtu	
59	USGNXOR	U.S. ozone season NO _x gas input emission rate	lb/MMBtu	
60	USFSNOR	U.S. ozone season NO _x fossil fuel input emission rate	lb/MMBtu	
61	USCSO2R	U.S. annual SO ₂ coal input emission rate	lb/MMBtu	
62	USOSO2R	U.S. annual SO ₂ oil input emission rate	lb/MMBtu	
63	USGSO2R	U.S. annual SO ₂ gas input emission rate	lb/MMBtu	
64	USFSS2R	U.S. annual SO ₂ fossil fuel input emission rate	lb/MMBtu	
65	USCCO2R	U.S. annual CO ₂ coal input emission rate	lb/MMBtu	
66	USOCO2R	U.S. annual CO ₂ oil input emission rate	lb/MMBtu	
67	USGCO2R	U.S. annual CO ₂ gas input emission rate	lb/MMBtu	
68	USFSC2R	U.S. annual CO ₂ fossil fuel input emission rate	lb/MMBtu	
69	USCHGR	U.S. annual Hg coal input emission rate	lb/BBtu	
70	USFSHGR	U.S. annual Hg fossil fuel input emission rate	lb/BBtu	
71	USNBNOX	U.S. annual NO _x non-baseload output emission rate	lb/MWh	
72	USNBXO	U.S. ozone season NO _x non-baseload output emission rate	lb/MWh	
73	USNBSO2	U.S. annual SO ₂ non-baseload output emission rate	lb/MWh	
74	USNBCO2	U.S. annual CO ₂ non-baseload output emission rate	lb/MWh	
75	USNBCH4	U.S. annual CH ₄ non-baseload output emission rate	lb/GWh	
76	USBN2O	U.S. annual N ₂ O non-baseload output emission rate	lb/GWh	
77	USNBHG	U.S. annual Hg non-baseload output emission rate	lb/GWh	
78	USGENACL	U.S. annual coal net generation	MWh	
79	USGENAOL	U.S. annual oil net generation	MWh	
80	USGENAGS	U.S. annual gas net generation	MWh	
81	USGENANC	U.S. annual nuclear net generation	MWh	
82	USGENAHY	U.S. annual hydro net generation	MWh	
83	USGENABM	U.S. annual biomass net generation	MWh	
84	USGENAWI	U.S. annual wind net generation	MWh	
85	USGENASO	U.S. annual solar net generation	MWh	
86	USGENAGT	U.S. annual geothermal net generation	MWh	
87	USGENAOF	U.S. annual other fossil net generation	MWh	
88	USGENAOP	U.S. annual other unknown/purchased fuel net generation	MWh	

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 U.S. File
United States File (continued).

Field	Name	Description	Unit	Source(s)
89	USGENATN	U.S. annual total nonrenewables net generation	MWh	
90	USGENATR	U.S. annual total renewables net generation	MWh	
91	USGENATH	U.S. annual total nonhydro renewables net generation	MWh	
92	USGENACY	U.S. annual total combustion net generation	MWh	
93	USGENACN	U.S. annual total noncombustion net generation	MWh	
94	USCLPR	U.S. coal generation percent (resource mix)		
95	USOLPR	U.S. oil generation percent (resource mix)		
96	USGSPR	U.S. gas generation percent (resource mix)		
97	USNCPR	U.S. nuclear generation percent (resource mix)		
98	USHYPR	U.S. hydro generation percent (resource mix)		
99	USBMPR	U.S. biomass generation percent (resource mix)		
100	USWIPR	U.S. wind generation percent (resource mix)		
101	USSOPR	U.S. solar generation percent (resource mix)		
102	USGTPR	U.S. geothermal generation percent (resource mix)		
103	USOFPR	U.S. other fossil generation percent (resource mix)		
104	USOPPR	U.S. other unknown/purchased fuel generation percent (resource mix)		
105	USTNPR	U.S. total nonrenewables generation percent (resource mix)		
106	USTRPR	U.S. total renewables generation percent (resource mix)		
107	USTHPR	U.S. total nonhydro renewables generation percent (resource mix)		
108	USCYPR	U.S. total combustion generation percent (resource mix)		
109	USCNPR	U.S. total noncombustion generation percent (resource mix)		

Table A-1
eGRID2012 Version 1.0 File Structure
Year 2009 GGL File
Grid Gross Loss (%) File

Field	Name	Description	Unit	Source(s)
1	REGION	One of the three interconnect power grids in the U.S. (plus Alaska, Hawaii, and the entire U.S.)		
2	GENERAT	The regional total net generation	MWh	2009 FERC-714 updated by EIA, but eGRID yr 2009 net generation for ASCC and HICC
3	FRGNINTC	The regional net foreign interchange with Canada and Mexico (imports are positive)	MWh	2009 FERC-714 updated by EIA
4	INTRCHNG	The regional total net interchange with a different U.S. region (imports are positive)	MWh	2009 FERC-714 + updates
5	CONSUMP	The regional total consumption	MWh	2009 EIA-861 Files 1 & 2 + updates
6	GGRSLOSS	The estimated regional grid gross loss as a percent [= 100 * (GENERAT + FRGNINTC+ INTRCHNG - CONSUMP) / GENERAT]	%	
7	YEAR	Data year		