

EPA VISIBLE EMISSION OBSERVATION FORM 1

Method Used (Circle One)
 Method 9 203A 203B Other: _____

Form Number _____ Page _____ Of _____
 Continued on VEO Form Number _____

Company Name
RELIANT ENERGY - IR.

Facility Name _____

Street Address _____

City _____ State _____ Zip _____

Process
OIL FIRED BOILER Unit # **1** Operating Mode **782 MBTU/HK**

Control Equipment _____ Operating Mode _____

Describe Emission Point

Height of Emiss. Pt. Start **300** End _____ Height of Emiss. Pt. Rel. to Observer Start **300** End _____

Distance to Emiss. Pt. Direction to Emiss. Pt. (Degrees) Start **108** End _____

Vertical Angle to Obs. Pt. Direction to Obs. Pt. (Degrees) Start **108** End _____

Distance and Direction to Observation Point from Emission Point Start **101A UP** End _____

Describe Emissions Start **STEADY** End **STEADY**

Emission Color Start **BROWN** End _____

Water Droplet Plume Attached Detached None

Describe Plume Background Start **GRY** End **SKY**

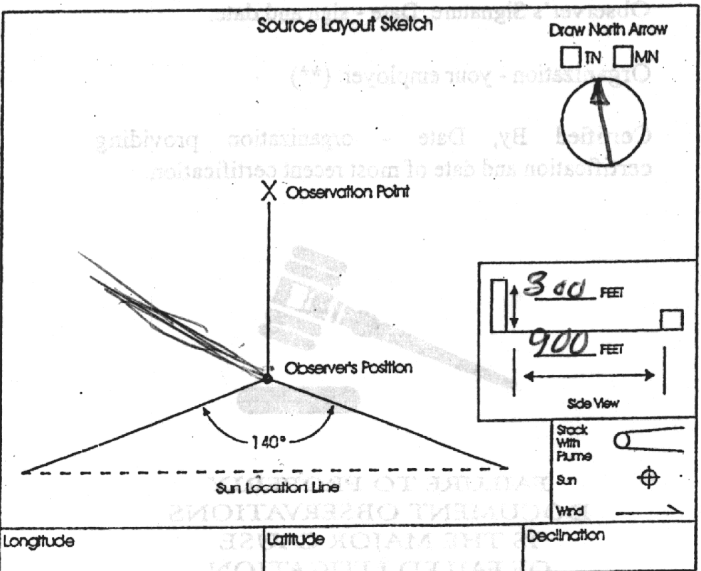
Background Color Start **GREY** End _____

Wind Speed Start **3-5** End _____

Wind Direction Start **SE** End _____

Ambient Temp. Start **80°** End _____

Wet Bulb Temp. _____ RH Percent _____



Min	Time Zone				Start Time	End Time	Comments
	Sec	0	15	30			
40 ¹	5	5	5	5	12:40		
41 ²	5	5	5	5			
42 ³	5	5	5	5			
43 ⁴	5	5	5	5			
44 ⁵	5	5	5	5			
45 ⁶	5	5	5	5			
46 ⁷	5	5	5	5			
47 ⁸	5	5	5	5			
48 ⁹	5	5	5	5			
49 ¹⁰	5	5	5	5			
50 ¹¹	5	5	5	5			
51 ¹²	5	5	5	5			
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30							

Observer's Name (Print) **GARY KUBERK**

Observer's Signature **Gary Kuberk** Date **4/7/05**

Organization **FERP**

Certified By **EPA** Date **2-14-05**

Additional Information

RELIANT-IR

Unit

Btu/lb

% S

1/11/05	1	05-04	18187			1.21
1/12/05	1	05-07	18153			1.22
1/24/05	1	05-15	17700			1.18
1/29/05	1	05-22	18237			0.91
1/30/05	1	05-24	17928			1.49
1/31/05	1	05-26	18142			1.19
1/11/05	2	05-05	18039			1.50
1/12/05	2	05-06	18004			1.51
1/28/05	2	05-21	18073			1.50
1/29/05	2	05-23	17986			1.48
1/30/05	2	05-25	18023			1.48
1/31/05	2	05-27	18062			1.49
1/24/05	2/3	05-16	18119			1.46
1/25/05	2/3	05-17	18125			1.49
1/1/05	3	05-01	18225			1.38
1/2/05	3	05-02	18454			1.14
1/3/05	3	05-03	18452			1.14
1/17/05	3	05-08	18084			1.49
1/18/05	3	05-09	18124			1.48
1/19/05	3	05-10	18080			1.49
1/20/05	3	05-11	18086			1.49
1/21/05	3	05-12	18058			1.48
1/22/05	3	05-13	18121			1.49
1/23/05	3/2	05-14	18094			1.50
1/26/05	3	05-18	18355			0.98
1/27/05	3	05-19	18358			1.00
1/28/05	3	05-20	18027			1.43

PNG Btu/sec
2/15
1034

Vnet

REWARD-IR.
RTU/1b

9/8

2/1/05	1	05-28	18172			1.18
2/3/05	1	05-31	18129			1.17
2/4/05	1	05-32	18171			1.20
2/5/05	1	05-34	18230			1.19
2/6/05	1	05-36	18241			1.20
2/7/05	1	05-38	18156			1.19
2/9/05	1	05-40	18190			1.19
2/1/05	2	05-29	17942			1.51
2/3/05	2	05-30	18029			1.47
2/4/05	2	05-33	18065			1.48
2/5/05	2	05-35	17999			1.49
2/6/05	2	05-37	18023			1.49
2/7/05	2	05-39	17952			1.49
2/9/05	2	05-41	18071			1.49
2/15/05	2	05-46	18027			1.49
2/16/05	2	05-47	18029			1.48
2/21/05	2	05-48	18032			1.47
2/11/05	3	05-42	18024			1.49
2/12/05	3	05-43	18160			1.42
2/13/05	3	05-44	18262			1.29
2/14/05	3	05-45	18407			1.18
2/26/05	3	05-49	18399			1.16
2/27/05	3	05-50	18416			1.14
2/28/05	3	05-51	18408			1.14

Reliant Energy Indian River - Unit 1

Run 1 - Soot Blowing

DATE	TIME	MW	Oil Flow Main (lb/min)	Oil Flow Recirc (lb/min)	Oil Flow (lb/min)	Oil GCV (Btu/lb)	Oil Heat Input (mmBtu/hr)	Gas Flow (kscfh)	Gas GCV (Btu/scf)	Gas Heat Input (mmBtu/hr)	Total Heat Input (mmBtu/hr)	Weighted Average HI Limit (mmBtu/hr)
4/7/2005	081500	81.924	709.561	0.000	710	18411	783.82	0	1035	0.00	783.82	832.20
4/7/2005	081600	81.907	709.059	0.000	709	18411	783.27	0	1035	0.00	783.27	832.20
4/7/2005	081700	81.907	705.182	0.000	705	18411	778.99	0	1035	0.00	778.99	832.20
4/7/2005	081800	81.882	709.731	0.000	710	18411	784.01	0	1035	0.00	784.01	832.20
4/7/2005	081900	81.952	706.350	0.000	706	18411	780.28	0	1035	0.00	780.28	832.20
4/7/2005	082000	81.885	704.509	0.000	705	18411	778.24	0	1035	0.00	778.24	832.20
4/7/2005	082100	81.832	707.671	0.000	708	18411	781.74	0	1035	0.00	781.74	832.20
4/7/2005	082200	81.853	706.979	0.000	707	18411	780.97	0	1035	0.00	780.97	832.20
4/7/2005	082300	81.869	709.089	0.000	709	18411	783.30	0	1035	0.00	783.30	832.20
4/7/2005	082400	81.886	707.610	0.000	708	18411	781.67	0	1035	0.00	781.67	832.20
4/7/2005	082500	81.859	709.601	0.000	710	18411	783.87	0	1035	0.00	783.87	832.20
4/7/2005	082600	81.933	710.688	0.000	711	18411	785.07	0	1035	0.00	785.07	832.20
4/7/2005	082700	81.935	708.591	0.000	709	18411	782.75	0	1035	0.00	782.75	832.20
4/7/2005	082800	81.901	709.064	0.000	709	18411	783.27	0	1035	0.00	783.27	832.20
4/7/2005	082900	81.862	708.001	0.000	708	18411	782.10	0	1035	0.00	782.10	832.20
4/7/2005	083000	81.833	709.845	0.000	710	18411	784.14	0	1035	0.00	784.14	832.20
4/7/2005	083100	81.849	708.205	0.000	708	18411	782.33	0	1035	0.00	782.33	832.20
4/7/2005	083200	81.896	707.537	0.000	708	18411	781.59	0	1035	0.00	781.59	832.20
4/7/2005	083300	81.908	705.432	0.000	705	18411	779.26	0	1035	0.00	779.26	832.20
4/7/2005	083400	81.845	705.152	0.000	705	18411	778.95	0	1035	0.00	778.95	832.20
4/7/2005	083500	81.777	709.345	0.000	709	18411	783.59	0	1035	0.00	783.59	832.20
4/7/2005	083600	81.822	707.836	0.000	708	18411	781.92	0	1035	0.00	781.92	832.20
4/7/2005	083700	81.771	711.804	0.000	712	18411	786.30	0	1035	0.00	786.30	832.20
4/7/2005	083800	81.833	714.438	0.000	714	18411	789.21	0	1035	0.00	789.21	832.20
4/7/2005	083900	81.928	710.854	0.000	711	18411	785.25	0	1035	0.00	785.25	832.20
4/7/2005	084000	81.896	707.729	0.000	708	18411	781.80	0	1035	0.00	781.80	832.20
4/7/2005	084100	81.859	708.369	0.000	708	18411	782.51	0	1035	0.00	782.51	832.20
4/7/2005	084200	81.849	706.570	0.000	707	18411	780.52	0	1035	0.00	780.52	832.20
4/7/2005	084300	81.836	710.433	0.000	710	18411	784.79	0	1035	0.00	784.79	832.20
4/7/2005	084400	81.910	708.093	0.000	708	18411	782.20	0	1035	0.00	782.20	832.20
4/7/2005	084500	81.882	707.189	0.000	707	18411	781.20	0	1035	0.00	781.20	832.20
4/7/2005	084600	81.851	706.072	0.000	706	18411	779.97	0	1035	0.00	779.97	832.20
4/7/2005	084700	81.822	708.726	0.000	709	18411	782.90	0	1035	0.00	782.90	832.20
4/7/2005	084800	81.759	708.640	0.000	709	18411	782.81	0	1035	0.00	782.81	832.20
4/7/2005	084900	81.761	712.313	0.000	712	18411	786.86	0	1035	0.00	786.86	832.20
4/7/2005	085000	81.776	711.844	0.000	712	18411	786.35	0	1035	0.00	786.35	832.20
4/7/2005	085100	81.662	710.515	0.000	711	18411	784.88	0	1035	0.00	784.88	832.20
4/7/2005	085200	81.753	708.271	0.000	708	18411	782.40	0	1035	0.00	782.40	832.20
4/7/2005	085300	81.739	705.809	0.000	706	18411	779.68	0	1035	0.00	779.68	832.20
4/7/2005	085400	81.709	706.286	0.000	706	18411	780.21	0	1035	0.00	780.21	832.20
4/7/2005	085500	81.602	704.370	0.000	704	18411	778.09	0	1035	0.00	778.09	832.20
4/7/2005	085600	81.470	703.623	0.000	704	18411	777.26	0	1035	0.00	777.26	832.20
4/7/2005	085700	81.435	701.390	0.000	701	18411	774.80	0	1035	0.00	774.80	832.20
4/7/2005	085800	81.392	699.931	0.000	700	18411	773.19	0	1035	0.00	773.19	832.20
4/7/2005	085900	81.378	702.933	0.000	703	18411	776.50	0	1035	0.00	776.50	832.20
4/7/2005	090000	81.463	706.753	0.000	707	18411	780.72	0	1035	0.00	780.72	832.20
4/7/2005	090100	81.572	707.960	0.000	708	18411	782.06	0	1035	0.00	782.06	832.20
4/7/2005	090200	81.645	708.727	0.000	709	18411	782.90	0	1035	0.00	782.90	832.20
4/7/2005	090300	81.631	708.163	0.000	708	18411	782.28	0	1035	0.00	782.28	832.20
4/7/2005	090400	81.643	709.456	0.000	709	18411	783.71	0	1035	0.00	783.71	832.20
4/7/2005	090500	81.603	708.190	0.000	708	18411	782.31	0	1035	0.00	782.31	832.20
4/7/2005	090600	81.614	707.863	0.000	708	18411	781.95	0	1035	0.00	781.95	832.20
4/7/2005	090700	81.620	706.787	0.000	707	18411	780.76	0	1035	0.00	780.76	832.20
4/7/2005	090800	81.649	705.847	0.000	706	18411	779.72	0	1035	0.00	779.72	832.20
4/7/2005	090900	81.619	703.380	0.000	703	18411	777.00	0	1035	0.00	777.00	832.20
4/7/2005	091000	81.672	703.462	0.000	703	18411	777.09	0	1035	0.00	777.09	832.20
4/7/2005	091100	81.729	711.256	0.000	711	18411	785.70	0	1035	0.00	785.70	832.20
4/7/2005	091200	81.847	708.268	0.000	708	18411	782.40	0	1035	0.00	782.40	832.20
4/7/2005	091300	81.820	710.866	0.000	711	18411	785.27	0	1035	0.00	785.27	832.20
4/7/2005	091400	81.834	712.519	0.000	713	18411	787.09	0	1035	0.00	787.09	832.20
4/7/2005	091500	81.875	713.510	0.000	714	18411	788.19	0	1035	0.00	788.19	832.20
4/7/2005	091600	81.874	709.840	0.000	710	18411	784.13	0	1035	0.00	784.13	832.20
4/7/2005	091700	81.846	711.596	0.000	712	18411	786.07	0	1035	0.00	786.07	832.20
4/7/2005	091800	81.892	709.747	0.000	710	18411	784.03	0	1035	0.00	784.03	832.20
4/7/2005	091900	81.853	711.009	0.000	711	18411	785.42	0	1035	0.00	785.42	832.20
4/7/2005	092000	81.888	709.496	0.000	709	18411	783.75	0	1035	0.00	783.75	832.20
4/7/2005	092100	81.876	709.297	0.000	709	18411	783.53	0	1035	0.00	783.53	832.20
4/7/2005	092200	81.879	710.059	0.000	710	18411	784.37	0	1035	0.00	784.37	832.20
4/7/2005	092300	81.877	709.715	0.000	710	18411	783.99	0	1035	0.00	783.99	832.20
4/7/2005	092400	81.808	707.904	0.000	708	18411	781.99	0	1035	0.00	781.99	832.20
4/7/2005	092500	81.763	708.762	0.000	709	18411	782.94	0	1035	0.00	782.94	832.20
4/7/2005	092600	81.805	708.595	0.000	709	18411	782.76	0	1035	0.00	782.76	832.20

782.31

94%