

## ภาคผนวก ข-12

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ผลการตรวจวัดคุณภาพอากาศจากปล่องระบายอากาศจาก

Continuous Emission Monitoring System (CEMs)

ระหว่างเดือนกรกฎาคมถึงธันวาคม พ.ศ. 2567



Site Name: GULF NLL  
Stack Name: HRSR STACK1  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Code	Emission Loading										Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSR1_NOx@7%O2		HRSR1_SOx@7%O2		HRSR1_Dust (7%O2)		HRSR1_CO@7%O2		
		Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	g/m3	ppm	g/m3	ppm	g/m3	ppm	g/m3	
01/07/2024 00:00	14.37	0.005488	2.082354	0.000095	0.019319	0.000238	0.0642750	32.00	0.30							
01/07/2024 01:00	14.39	0.007158	1.986254	0.000092	0.019210	0.000238	0.0660500	30.80	0.30							
01/07/2024 02:00	14.39	0.007024	1.950992	0.000088	0.019116	0.000237	0.0672500	30.40	0.30							
01/07/2024 03:00	14.39	0.006971	1.936515	0.000088	0.019108	0.000237	0.0676000	30.20	0.30							
01/07/2024 04:00	14.40	0.007026	1.952334	0.000088	0.019123	0.000237	0.0673500	30.30	0.30							
01/07/2024 05:00	14.39	0.006919	1.922050	0.000088	0.019101	0.000236	0.0667500	29.90	0.30							
01/07/2024 06:00	14.38	0.006797	1.888101	0.000085	0.019036	0.000262	0.0727222	29.50	0.30							
01/07/2024 07:00	14.38	0.006835	1.891877	0.000084	0.019007	0.000235	0.0693500	29.60	0.30							
01/07/2024 08:00	14.37	0.007039	1.955141	0.000136	0.027781	0.000234	0.0649500	30.60	0.30							
01/07/2024 09:00	14.39	0.006751	1.897489	0.000127	0.035279	0.000218	0.0660500	27.00	0.30							
01/07/2024 10:00	14.43	0.006869	1.630079	0.000128	0.035716	0.000221	0.0614000	27.40	0.30							
01/07/2024 11:00	14.43	0.006604	1.667727	0.000127	0.035425	0.000219	0.0699000	26.10	0.30							
01/07/2024 12:00	14.38	0.006796	1.610000	0.000049	0.013742	0.000170	0.0472500	35.00	0.30							
01/07/2024 13:00	14.44	0.006780	1.813460	0.000066	0.018454	0.000228	0.0634500	30.80	0.30							
01/07/2024 14:00	14.45	0.006916	1.920978	0.000066	0.018432	0.000228	0.0633750	31.30	0.30							
01/07/2024 15:00	14.46	0.007098	1.971635	0.000066	0.018410	0.000228	0.0633000	32.00	0.30							
01/07/2024 16:00	14.44	0.006789	1.815925	0.000063	0.018221	0.000225	0.0635500	31.00	0.30							
01/07/2024 17:00	14.46	0.007109	1.974645	0.000066	0.018563	0.000230	0.0632500	32.00	0.30							
01/07/2024 18:00	14.46	0.007109	1.974749	0.000064	0.018439	0.000228	0.0634000	32.10	0.30							
01/07/2024 19:00	14.41	0.006902	1.917189	0.000066	0.018396	0.000228	0.0632500	31.00	0.30							
01/07/2024 20:00	14.39	0.006780	1.815925	0.000064	0.018454	0.000228	0.0634500	30.80	0.30							
01/07/2024 21:00	14.39	0.006963	1.934070	0.000067	0.018887	0.000231	0.0642500	30.80	0.30							
01/07/2024 22:00	14.38	0.006909	1.919144	0.000067	0.018672	0.000231	0.0642000	30.50	0.30							
01/07/2024 23:00	14.40	0.006722	1.867291	0.000062	0.017436	0.000240	0.0681111	29.00	0.30							
02/07/2024 00:00	14.31	0.005482	1.514519	0.000126	0.032447	0.000207	0.0602000	26.60	0.30							
02/07/2024 01:00	14.32	0.005278	1.466230	0.000122	0.034000	0.000210	0.0554500	25.40	0.30							
02/07/2024 02:00	14.30	0.005205	1.445927	0.000121	0.033810	0.000209	0.0581250	25.00	0.30							
02/07/2024 03:00	14.30	0.005227	1.451890	0.000120	0.033389	0.000200	0.0637778	25.50	0.30							
02/07/2024 04:00	14.31	0.005091	1.486921	0.000120	0.033500	0.000204	0.0704354	25.60	0.30							
02/07/2024 05:00	14.31	0.005136	1.476441	0.000121	0.033680	0.000232	0.0643333	25.60	0.30							
02/07/2024 06:00	14.30	0.005261	1.461375	0.000121	0.033607	0.000231	0.0641944	25.40	0.30							
02/07/2024 07:00	14.27	0.004952	1.375652	0.000115	0.032167	0.000221	0.0614444	24.00	0.30							
02/07/2024 08:00	14.42	0.005107	1.502110	0.000110	0.032778	0.000211	0.0712861	24.30	0.30							
02/07/2024 09:00	14.42	0.005160	1.509590	0.000130	0.036195	0.000249	0.0691389	26.50	0.30							
02/07/2024 10:00	14.45	0.005097	1.640698	0.000129	0.035948	0.000247	0.0686667	27.30	0.30							
02/07/2024 11:00	14.46	0.005079	1.594428	0.000126	0.034930	0.000216	0.0600500	27.40	0.30							
02/07/2024 12:00	14.63	0.005125	1.590407	0.000049	0.013874	0.000218	0.0634500	30.20	0.30							
02/07/2024 13:00	14.51	0.006706	1.882481	0.000065	0.018250	0.000226	0.0627500	30.80	0.30							
02/07/2024 14:00	14.50	0.006770	1.890492	0.000066	0.018425	0.000203	0.0653111	30.80	0.30							
02/07/2024 15:00	14.47	0.006595	1.812046	0.000064	0.018338	0.000202	0.0660444	30.10	0.30							
02/07/2024 16:00	14.50	0.006796	1.815925	0.000064	0.018454	0.000228	0.0634500	30.80	0.30							
02/07/2024 17:00	14.48	0.007106	1.973903	0.000067	0.018810	0.000259	0.0718611	31.60	0.30							
02/07/2024 18:00	14.45	0.007022	1.950532	0.000067	0.018716	0.000232	0.0643500	31.20	0.30							
02/07/2024 19:00	14.41	0.006847	1.902013	0.000067	0.018938	0.000202	0.0783139	30.50	0.30							
02/07/2024 20:00	14.40	0.006816	1.907207	0.000067	0.018887	0.000203	0.0789278	30.30	0.30							
02/07/2024 21:00	14.40	0.006901	1.916855	0.000067	0.018781	0.000248	0.0717500	30.50	0.30							
02/07/2024 22:00	14.40	0.006925	1.923534	0.000067	0.018847	0.000205	0.0792000	30.40	0.30							
02/07/2024 23:00	14.42	0.006648	1.852213	0.000063	0.017531	0.000245	0.0726594	29.00	0.30							
03/07/2024 00:00	14.34	0.005047	1.524057	0.000061	0.031693	0.000207	0.0610500	26.60	0.30							
03/07/2024 01:00	14.35	0.005409	1.502479	0.000124	0.034552	0.000261	0.0726000	25.60	0.30							
03/07/2024 02:00	14.35	0.005380	1.494451	0.000124	0.034654	0.000262	0.0728139	25.60	0.30							
03/07/2024 03:00	14.33	0.005089	1.413719	0.000121	0.033912	0.000267	0.0712556	24.00	0.30							
03/07/2024 04:00	14.32	0.005091	1.414268	0.000121	0.033616	0.000254	0.0709150	24.70	0.30							
03/07/2024 05:00	14.34	0.005180	1.441804	0.000123	0.034290	0.000259	0.0720500	24.80	0.30							
03/07/2024 06:00	14.32	0.005063	1.406444	0.000121	0.033738	0.000255	0.0708889	24.60	0.30							
03/07/2024 07:00	14.31	0.004907	1.335228	0.000118	0.032680	0.000249	0.0690861	23.00	0.30							
03/07/2024 08:00	14.46	0.005380	1.494451	0.000124	0.034654	0.000262	0.0728139	25.60	0.30							
03/07/2024 09:00	14.43	0.005526	1.534912	0.000130	0.036195	0.000249	0.0691389	25.30	0.30							
03/07/2024 10:00	14.46	0.005640	1.566571	0.000130	0.036326	0.000225	0.0624500	25.90	0.30							
03/07/2024 11:00	14.46	0.005802	1.611662	0.000130	0.036146	0.000249	0.0690861	25.70	0.30							
03/07/2024 12:00	14.51	0.005260	1.481004	0.000065	0.018250	0.000212	0.0698111	31.50	0.30							
03/07/2024 13:00	14.42	0.005502	1.806135	0.000067	0.018614	0.000282	0.0722222	28.90	0.30							
03/07/2024 14:00	14.44	0.005553	1.820224	0.000067	0.018521	0.000282	0.0725288	29.30	0.30							
03/07/2024 15:00	14.41	0.005560	1.822257	0.000067	0.018643	0.000266	0.0712222	29.10	0.30							
03/07/2024 16:00	14.37	0.005446	1.790546	0.000066	0.018454	0.000254	0.0705000	29.70	0.30							



Date & Time	Operation Code	Emission Loading				Dust	Emission Concentration for Standardization Comparison				Remark
		O2	NOx	SOx	Tea		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2	
		%	Tons (g/s)	Tons (g/s)	Tons (g/s)	ppm	ppm	ppm	mg/m3		
06/07/2024 03:00	14.29	0.004528	1.257710	0.001200	0.033331	0.000252	0.0720333	22.30	0.40	2.31	
06/07/2024 04:00	14.29	0.004477	1.243557	0.001198	0.033272	0.000229	0.0635566	21.80	0.40	2.10	
06/07/2024 05:00	14.30	0.004636	1.259883	0.001214	0.033709	0.000232	0.0643899	21.90	0.40	2.11	
06/07/2024 06:00	14.30	0.004534	1.259319	0.001213	0.033684	0.000232	0.0643611	21.80	0.40	2.11	
06/07/2024 07:00	14.27	0.004293	1.181582	0.001140	0.032225	0.000214	0.0577711	21.00	0.40	2.00	
06/07/2024 08:00	14.42	0.005244	1.456514	0.001089	0.030248	0.000208	0.0577718	29.00	0.40	2.15	
06/07/2024 09:00	14.39	0.004963	1.300486	0.001292	0.035890	0.000247	0.0685566	22.40	0.40	2.14	
06/07/2024 10:00	14.38	0.004882	1.280444	0.001289	0.035788	0.000246	0.0683511	22.40	0.40	2.14	
06/07/2024 11:00	14.42	0.005085	1.413454	0.001266	0.035730	0.000246	0.0690250	27.00	0.40	2.16	
06/07/2024 12:00	14.59	0.005279	1.465267	0.001089	0.032783	0.000169	0.0470750	32.90	0.40	1.98	
06/07/2024 13:00	14.45	0.005976	1.653935	0.001330	0.036952	0.000229	0.0632500	26.00	0.40	1.93	
06/07/2024 14:00	14.43	0.005791	1.608020	0.001321	0.036860	0.000252	0.0700833	26.20	0.40	2.15	
06/07/2024 15:00	14.42	0.005819	1.602391	0.001322	0.036850	0.000252	0.0700728	26.20	0.40	2.15	
06/07/2024 16:00	14.41	0.005895	1.533062	0.001301	0.036152	0.000224	0.0621500	25.40	0.40	1.93	
06/07/2024 17:00	14.42	0.005725	1.590376	0.001317	0.036574	0.000226	0.0628750	25.90	0.40	1.93	
06/07/2024 18:00	14.40	0.005723	1.589744	0.001316	0.036559	0.000226	0.0628600	25.90	0.40	1.92	
06/07/2024 19:00	14.38	0.005662	1.572843	0.001313	0.036472	0.000226	0.0627000	25.80	0.40	1.92	
06/07/2024 20:00	14.38	0.005667	1.574039	0.001325	0.036506	0.000226	0.0632750	25.40	0.40	1.92	
06/07/2024 21:00	14.38	0.005669	1.574661	0.001326	0.036821	0.000228	0.0633000	25.30	0.40	1.92	
06/07/2024 22:00	14.38	0.005780	1.605555	0.001329	0.036923	0.000229	0.0634750	25.80	0.40	1.92	
06/07/2024 23:00	14.40	0.005856	1.573955	0.001326	0.036434	0.000226	0.0590250	27.00	0.40	1.92	
07/07/2024 00:00	14.30	0.004608	1.272988	0.001188	0.033287	0.000206	0.0572250	22.60	0.40	1.90	
07/07/2024 01:00	14.31	0.004391	1.219768	0.001222	0.033941	0.000210	0.0583500	21.10	0.50	1.90	
07/07/2024 02:00	14.29	0.004161	1.155801	0.001184	0.033156	0.000205	0.0670000	20.40	0.50	1.89	
07/07/2024 03:00	14.28	0.004076	1.132146	0.001182	0.032882	0.000205	0.0664300	19.80	0.50	1.89	
07/07/2024 04:00	14.27	0.003996	1.110125	0.001171	0.032516	0.000205	0.0650000	19.80	0.50	1.89	
07/07/2024 05:00	14.27	0.003928	1.091871	0.001163	0.032298	0.000200	0.0555250	19			



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Col	Emission Loading										Emission Concentration for Standardization Comparison				Remark
		CO2		NOx		SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust@7%O2	HRSG1_CO@7%O2			
		%	Ton	%	Ton	%	Ton	%	Ton							
11/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
11/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
11/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
11/07/2024 09:00	14.36	0.007053	1.859176	0.0001317	0.036588	0.000277	0.0788778	31.70	0.40	0.40	0.40	2.34	0.60	0.60	0.60	
11/07/2024 10:00	14.36	0.007152	1.886707	0.0001309	0.036370	0.000275	0.0764194	32.20	0.40	0.40	0.40	2.34	0.60	0.60	0.60	
11/07/2024 11:00	14.34	0.007091	1.844605	0.0001273	0.035847	0.000268	0.0743111	32.40	0.40	0.40	0.40	2.20	0.40	0.40	0.40	
11/07/2024 12:00	14.57	0.006741	1.872590	0.0000982	0.037281	0.000188	0.0521111	41.90	0.40	0.40	0.40	2.20	0.40	0.40	0.40	
11/07/2024 13:00	14.41	0.007767	2.157485	0.0001310	0.036384	0.000275	0.0764500	35.30	0.40	0.40	0.40	2.36	0.70	0.70	0.70	
11/07/2024 14:00	14.42	0.007814	2.198321	0.0001327	0.036850	0.000278	0.0774278	35.50	0.40	0.40	0.40	2.36	0.70	0.70	0.70	
11/07/2024 15:00	14.42	0.007937	2.204813	0.0001315	0.036515	0.000276	0.0767250	36.00	0.40	0.40	0.40	2.36	0.70	0.70	0.70	
11/07/2024 16:00	14.46	0.008295	2.304264	0.0001327	0.036850	0.000288	0.0633500	37.60	0.40	0.40	0.40	1.94	0.70	0.70	0.70	
11/07/2024 17:00	14.45	0.008493	2.359264	0.0001343	0.037391	0.000231	0.0641250	36.00	0.40	0.40	0.40	1.94	0.70	0.70	0.70	
11/07/2024 18:00	14.42	0.008316	2.315008	0.0001338	0.037155	0.000230	0.0638750	37.20	0.40	0.40	0.40	1.93	0.70	0.70	0.70	
11/07/2024 19:00	14.40	0.008188	2.274394	0.0001332	0.037010	0.000229	0.0635250	36.50	0.40	0.40	0.40	1.92	0.70	0.70	0.70	
11/07/2024 20:00	14.41	0.008307	2.307447	0.0001344	0.037330	0.000257	0.0713056	36.80	0.40	0.40	0.40	2.14	0.70	0.70	0.70	
11/07/2024 21:00	14.43	0.008653	2.403748	0.0001353	0.037677	0.000233	0.0646000	36.20	0.40	0.40	0.40	1.93	0.70	0.70	0.70	
11/07/2024 22:00	14.42	0.008543	2.373061	0.0001351	0.037519	0.000258	0.0716667	37.80	0.40	0.40	0.40	2.15	1.40	1.40	1.40	
11/07/2024 23:00	14.44	0.008335	2.315239	0.0001227	0.034987	0.000234	0.0651111	58.10	0.50	0.50	0.50	2.29	545.70	545.70	545.70	
12/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
12/07/2024 09:00	14.44	0.006836	1.891846	0.0001285	0.035791	0.000246	0.0691844	31.90	0.50	0.50	0.50	2.15	0.60	0.60	0.60	
12/07/2024 10:00	14.45	0.007046	1.957315	0.0001290	0.035832	0.000246	0.0684444	32.60	0.50	0.50	0.50	2.16	0.60	0.60	0.60	
12/07/2024 11:00	14.45	0.007237	2.010214	0.0001293	0.035628	0.000245	0.0682556	34.50	0.50	0.50	0.50	2.16	0.60	0.60	0.60	
12/07/2024 12:00	14.63	0.006927	1.895442	0.0000989	0.037485	0.000170	0.0472500	42.40	0.40	0.40	0.40	2.00	0.40	0.40	0.40	
12/07/2024 13:00	14.46	0.008448	2.346773	0.0001343	0.037315	0.000257	0.0712778	37.70	0.40	0.40	0.40	2.16	0.60	0.60	0.60	
12/07/2024 14:00	14.44	0.008287	2.320249	0.0001341	0.037242	0.000256	0.0711389	37.10	0.40	0.40	0.40	2.15	0.70	0.70	0.70	
12/07/2024 15:00	14.42	0.007952	2.211554	0.0001311	0.036414	0.000250	0.0695556	36.40	0.40	0.40	0.40	1.94	0.60	0.60	0.60	
12/07/2024 16:00	14.44	0.008186	2.254219	0.0001327	0.036814	0.000238	0.0633750	36.80	0.40	0.40	0.40	1.93	0.70	0.70	0.70	
12/07/2024 17:00	14.43	0.008339	2.316337	0.0001341	0.037257	0.000231	0.0640500	37.10	0.40	0.40	0.40	1.93	0.60	0.60	0.60	
12/07/2024 18:00	14.42	0.008326	2.312720	0.0001339	0.037199	0.000230	0.0639500	37.10	0.40	0.40	0.40	1.93	0.70	0.70	0.70	
12/07/2024 19:00	14.41	0.008159	2.264323	0.0001328	0.036879	0.000228	0.0634000	37.20	0.40	0.40	0.40	1.93	0.70	0.70	0.70	
12/07/2024 20:00	14.43	0.008378	2.337188	0.0001348	0.037431	0.000232	0.0643500	37.20	0.40	0.40	0.40	1.94	0.70	0.70	0.70	
12/07/2024 21:00	14.44	0.008610	2.391655	0.0001346	0.037388	0.000231	0.0642750	38.40	0.40	0.40	0.40	2.10	0.70	0.70	0.70	
12/07/2024 22:00	14.43	0.008493	2.359264	0.0001343	0.037201	0.000231	0.0641250	37.70	0.40	0.40	0.40	2.10	0.70	0.70	0.70	
12/07/2024 23:00	14.54	0.007819	2.119590	0.0001205	0.033461	0.000207	0.0572500	49.60	0.40	0.40	0.40	367.80	0.70	0.70	0.70	
13/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
13/07/2024 09:00	14.45	0.007014	1.849274	0.0001310	0.036384	0.000250	0.0695000	32.20	0.50	0.50	0.50	2.16	0.60	0.60	0.60	
13/07/2024 10:00	14.46	0.007226	2.007214	0.0001306	0.036268	0.000224	0.0692500	33.20	0.50	0.50	0.50	2.16	0.60	0.60	0.60	
13/07/2024 11:00	14.48	0.007469	2.091929	0.0001289	0.035789	0.000221	0.0691250	34.00	0.50	0.50	0.50	1.94	0.70	0.70	0.70	
13/07/2024 12:00	14.66	0.007044	1.856446	0.0000980	0.037223	0.000168	0.0468000	44.50	0.40	0.40	0.40	2.00	0.40	0.40	0.40	
13/07/2024 13:00	14.50	0.008305	2.308396	0.0001313	0.036472	0.000226	0.0692700	38.10	0.40	0.40	0.40	1.95	0.70	0.70	0.70	
13/07/2024 14:00	14.52	0.008341	2.316353	0.0001319	0.036432	0.000227	0.0692750	38.40	0.40	0.40	0.40	1.96	0.70	0.70	0.70	
13/07/2024 15:00	14.51	0.008429	2.341422	0.0001318	0.036603	0.000227	0.0692750	39.70	0.40	0.40	0.40	1.96	0.70	0.70	0.70	
13/07/2024 16:00	14.48	0.008256	2.293352	0.0001320	0.036875	0.000227	0.0693000	37.60	0.40	0.40	0.40	1.95	0.70	0.70	0.70	
13/07/2024 17:00	14.44	0.008283	2.300967	0.0001332	0.037010	0.000255	0.0705844	37.20	0.40	0.40	0.40	2.14	0.70	0.70	0.70	
13/07/2024 18:00	14.41	0.008124	2.246623	0.0001330	0.036937	0.000244	0.0705556	36.40								



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Code	Emission Loading										Emission Concentration for Standardization Comparison										Remark
		O <sub>2</sub>		NO <sub>x</sub>		SO <sub>x</sub>		Dust		HRSG1_NOx@7%O <sub>2</sub>		HRSG1_SO <sub>2</sub> @7%O <sub>2</sub>		HRSG1_Dust (7%O <sub>2</sub> )		HRSG1_CO@7%O <sub>2</sub>						
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	(g/s)	ppm	ppm	ppm	ppm	mg/m <sup>3</sup>	ppm	ppm						
16/07/2024 09:00	14.39	0.005588	1.830029	0.0001936	0.053781	0.000222	0.0616500	30.30	0.60	0.000222	0.0616500	30.30	0.60	1.92	0.50	1.92	0.50					
16/07/2024 10:00	14.41	0.005527	1.813159	0.0001960	0.054446	0.000225	0.0624000	29.70	0.60	0.000225	0.0624000	29.70	0.60	1.93	0.50	1.93	0.50					
16/07/2024 11:00	14.37	0.005217	1.449204	0.0001927	0.053530	0.000221	0.0613500	24.00	0.60	0.000221	0.0613500	24.00	0.60	1.92	0.30	1.92	0.30					
16/07/2024 12:00	14.53	0.004352	1.208392	0.0001457	0.042049	0.000165	0.0499200	27.50	0.60	0.000165	0.0499200	27.50	0.60	1.96	0.10	1.96	0.10					
16/07/2024 13:00	14.41	0.005702	1.583880	0.0001935	0.053748	0.000222	0.0616000	26.30	0.60	0.000222	0.0616000	26.30	0.60	1.93	0.40	1.93	0.40					
16/07/2024 14:00	14.41	0.005304	1.473416	0.0001959	0.054424	0.000225	0.0623750	24.10	0.60	0.000225	0.0623750	24.10	0.60	1.93	0.30	1.93	0.30					
16/07/2024 15:00	14.40	0.005162	1.433396	0.0001941	0.053922	0.000222	0.0618000	23.70	0.60	0.000222	0.0618000	23.70	0.60	1.92	0.40	1.92	0.40					
16/07/2024 16:00	14.41	0.007023	1.950320	0.0002331	0.053861	0.000229	0.0633750	31.60	0.50	0.000229	0.0633750	31.60	0.50	1.93	0.60	1.93	0.60					
16/07/2024 17:00	14.41	0.007559	2.099648	0.0001940	0.0537213	0.000230	0.0633750	33.70	0.50	0.000230	0.0633750	33.70	0.50	1.93	0.70	1.93	0.70					
16/07/2024 18:00	14.40	0.007538	2.093304	0.0001336	0.037112	0.000230	0.0638000	33.60	0.50	0.000230	0.0638000	33.60	0.50	1.92	0.70	1.92	0.70					
16/07/2024 19:00	14.39	0.007489	2.074890	0.0001332	0.037010	0.000229	0.0636250	33.30	0.50	0.000229	0.0636250	33.30	0.50	1.92	0.70	1.92	0.70					
16/07/2024 20:00	14.39	0.007502	2.083828	0.0001338	0.037170	0.000230	0.0639000	33.30	0.50	0.000230	0.0639000	33.30	0.50	1.92	0.70	1.92	0.70					
16/07/2024 21:00	14.38	0.007454	2.070470	0.0001338	0.037170	0.000230	0.0638000	33.10	0.50	0.000230	0.0638000	33.10	0.50	1.92	0.70	1.92	0.70					
16/07/2024 22:00	14.38	0.007146	1.984872	0.0001334	0.037068	0.000229	0.0637250	31.80	0.50	0.000229	0.0637250	31.80	0.50	1.92	0.60	1.92	0.60					
16/07/2024 23:00	14.39	0.007133	1.981364	0.0001281	0.035670	0.000220	0.0611500	33.10	0.50	0.000220	0.0611500	33.10	0.50	1.92	0.60	1.92	0.60					
17/07/2024 00:00	14.38	0.007306	2.156194	0.0001384	0.038435	0.000238	0.0660750	34.00	0.50	0.000238	0.0660750	34.00	0.50	1.92	0.60	1.92	0.60					
17/07/2024 01:00	14.39	0.007909	2.197025	0.0001384	0.038449	0.000238	0.0661000	33.90	0.50	0.000238	0.0661000	33.90	0.50	1.92	0.60	1.92	0.60					
17/07/2024 02:00	14.38	0.007760	2.155572	0.0001382	0.038391	0.000238	0.0660000	32.60	0.50	0.000238	0.0660000	32.60	0.50	1.92	0.60	1.92	0.60					
17/07/2024 03:00	14.38	0.007827	2.174125	0.0001378	0.038329	0.000237	0.0659750	32.70	0.50	0.000237	0.0659750	32.70	0.50	1.92	0.60	1.92	0.60					
17/07/2024 04:00	14.38	0.007813	2.170210	0.0001385	0.038464	0.000238	0.0661250	33.40	0.50	0.000238	0.0661250	33.40	0.50	1.92	0.70	1.92	0.70					
17/07/2024 05:00	14.38	0.007605	2.112519	0.0001383	0.038420	0.000238	0.0660500	32.70	0.50	0.000238	0.0660500	32.70	0.50	1.92	0.60	1.92	0.60					
17/07/2024 06:00	14.38	0.007493	2.070314	0.0001383	0.038405	0.000238	0.0660250	32.00	0.50	0.000238	0.0660250	32.00	0.50	1.92	0.60	1.92	0.60					
17/07/2024 07:00	14.38	0.007506	2.110121	0.0001378	0.038329	0.000237	0.0659750	32.50	0.50	0.000237	0.0659750	32.50	0.50	1.91	0.60	1.91	0.60					
17/07/2024 08:00	14.37	0.006404	1.779017	0.0001382	0.035614	0.000220	0.0612250	29.50	0.50	0.000220	0.0612250	29.50	0.50	1.92	0.30	1.92	0.30					
17/07/2024 09:00	14.41	0.006449	1.781366	0.0001291	0.035861	0.000222	0.0616500	29.70	0.50	0.000222	0.0616500	29.70	0.50	1.93	0.60	1.93	0.60					
17/07/2024 10:00	14.41	0.006394	1.776111	0.0001290	0.035333	0.000220	0.0611250	29.60	0.50	0.000220	0.0611250	29.60	0.50	1.93	0.60	1.93	0.60					
17/07/2024 11:00	14.62	0.006334	1.668134	0.0000972	0.026990	0.000148	0.051444	27.50	0.50	0.000148	0.051444	27.50	0.50	1.77	0.30	1.77	0.30					
17/07/2024 12:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate				
17/07/2024 13:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate				
17/07/2024 14:00	14.41	0.007784	2.164373	-	-	0.000227	0.0631500	35.10	0.00	0.000227	0.0631500	35.10	0.00	1.93	0.50	1.93	0.50					
17/07/2024 15:00	14.40	0.008091	2.247435	-	-	0.000235	0.0640000	35.90	0.00	0.000235	0.0640000	35.90	0.00	1.92	0.60	1.92	0.60					
17/07/2024 16:00	14.40	0.008054	2.237167	-	-	0.000228	0.0633250	36.10	0.00	0.000228	0.0633250	36.10	0.00	1.92	0.90	1.92	0.90					
17/07/2024 17:00	14.39	0.007914	2.217783	-	-	0.000227	0.0631500	35.80	0.00	0.000227	0.0631500	35.80	0.00	1.92	0.90	1.92	0.90					
17/07/2024 18:00	14.40	0.008035	2.231831	-	-	0.000228	0.0633500	36.00	0.00	0.000228	0.0633500	36.00	0.00	1.92	0.90	1.92	0.90					
17/07/2024 19:00	14.40	0.008022	2.228319	-	-	0.000228	0.0633500	35.90	0.00	0.000228	0.0633500	35.90	0.00	1.92	0.90	1.92	0.90					
17/07/2024 20:00	14.40	0.008054	2.237099	-	-	0.000229	0.0637000	36.00	0.00	0.000229	0.0637000	36.00	0.00	1.92	0.90	1.92	0.90					
17/07/2024 21:00	14.44	0.007854	2.181744	-	-	0.000213	0.0593000	36.00	0.00	0.000213	0.0593000	36.00	0.00	1.94	0.80	1.94	0.80					
17/07/2024 22:00	14.34	0.006204	1.838788	-	-	0.000204	0.0567500	32.80	0.00	0.000204	0.0567500	32.80	0.00	1.91	0.50	1.91	0.50					
17/07/2024 23:00	14.32	0.006444	1.789386	-	-	0.000210	0.0582500	31.00	0.00	0.000210	0.0582500	31.00	0.00	1.90	0.80	1.90	0.80					
18/07/2024 00:00	14.31	0.006315	1.754266	-	-	0.000232	0.0643050	30.70	0.00	0.000232	0.0643050	30.70	0.00	2.11	0.80	2.11	0.80					
18/07/2024 01:00	14.30	0.006104	1.656592	-	-	0.000204	0.0567500	32.80	0.00	0.000204	0.0567500	32.80	0.00	1.90	0.90	1.90	0.90					
18/07/2024 02:00	14.32	0.006311	1.753111	-	-	0.000228	0.0633893	31.00	0.00	0.000228	0.0633893	31.00	0.00	2.11	0.80	2.11	0.80					
18/07/2024 03:00	14.29	0.006109	1.697014	-	-	0.000203	0.0563750	30.30	0.00	0.000203	0.0563750	30.30	0.00	1.89	0.80	1.89	0.80					
18/07/2024 04:00	14.28	0.005981	1.661515	-	-	0.000222	0.0617500	29.90	0.00	0.000222	0.0617500	29.90	0.00	2.10	0.90	2.10	0.90					
18/07/2024 05:00	14.46	0.006134	1.642728	-	-	0.000196	0.0515500	30.20	0.00	0.000196	0.0515500	30.20	0.00	1.94	0.70	1.94	0.70					
18/07/2024 06:00	14.39	0.006186	1.912873	-	-	0.000242	0.0673333	32.30	0.00	0.000242	0.0673333	32.30	0.00	2.14	0.80	2.14	0.80					
18/07/2024 07:00	14.38	0.006745	1.873520	-	-	0.000217	0.0601500	31.70	0.00	0.000217	0.0601500	31.70	0.00	1.92	0.80	1.92	0.80					
18/07/2024 08:00	14.39	0.006872	1.908927	-	-	0.000218	0.0604750	32.20	0.00	0.000218	0.0604750	32.20	0.00	1.92	0.80	1.92	0.80					
18/07/2024 09:00	14.58	0.006186	1.912893	-	-	0.000167	0.0491500	43.40	0.00	0.000167	0.0491500	43.40	0.00	1.98	0.50	1.98	0.50					
18/07/2024 10:00	14.38	0.007430	2.063393	-	-	0.00022221																



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Co	Emission Loading										Emission Concentration for Standardization Comparison				Remark		
		O2		NOx		SOx		Dust		HRSG1_NOx@7%O2		HRSG1_SOx@7%O2		HRSG1_Dust@7%O2			HRSG1_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm	ppm		ppm	
21/07/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 13:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 14:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 15:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 16:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 17:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 18:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 19:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 20:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 21:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 22:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
21/07/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 09:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 10:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 11:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 13:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 14:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 15:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 16:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 17:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 18:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 19:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 20:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 21:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 22:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
22/07/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 09:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 10:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 11:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 13:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 14:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 15:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 16:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 17:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 18:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 19:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 20:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 21:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 22:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
23/07/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/07/2024 08:00	Shut down	Shut																



[illegible]



Site Name: GULF NLL  
 Stack Name: HRSG\_STACK1  
 Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm
31/07/2024 18:00	14.81	0.008469	2.405629	-	-	0.000233	0.0646503	40.60	0.00	2.05	1.80	
31/07/2024 19:00	14.81	0.008507	2.367343	-	-	0.000231	0.0642250	40.20	0.00	2.05	1.80	
31/07/2024 20:00	14.80	0.008586	2.385018	-	-	0.000259	0.0720278	40.20	0.00	2.28	1.80	
31/07/2024 21:00	14.80	0.008448	2.407819	-	-	0.000280	0.0723056	40.20	0.00	2.28	1.80	
31/07/2024 22:00	14.81	0.008705	2.417995	-	-	0.000235	0.0653500	40.40	0.00	2.05	1.80	
31/07/2024 23:00	14.82	0.008785	2.394264	-	-	0.000219	0.0689000	41.30	0.00	2.06	1.70	
Minimum	14.24	0.00	1.02	0.00	0.00	0.00	0.04	19.80	0.00	1.70	0.10	
Maximum	16.56	0.01	2.66	0.00	0.06	0.00	0.08	58.10	0.60	2.88	578.50	
Avg	14.47	0.01	1.97	0.00	0.02	0.00	0.06	33.43	0.24	2.01	7.05	
SUM		4.03			0.04	0.13						
			STD = 5.92		STD = 0.82		STD = 1.58	STD = 69	STD = 6	STD = 30	STD = 650	



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		O2		NOx		SOx		Dust		HRSG2_NOx@7%O2	HRSG2_SOx@7%O2	HRSG2_Dust@7%O2	HRSG2_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm		
01/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
01/07/2024 09:00	13.71	0.010281	2.850244	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.10		
01/07/2024 10:00	13.80	0.010496	2.911155	-	-	0.000000	-	29.60	0.00	0.00	0.00	0.10		
01/07/2024 11:00	13.79	0.010773	2.992519	-	-	0.000000	-	29.00	0.00	0.00	0.00	0.10		
01/07/2024 12:00	13.93	0.010722	2.979720	-	-	0.000000	-	37.40	0.00	0.00	0.00	0.00		
01/07/2024 13:00	13.79	0.011310	3.141713	-	-	0.000000	-	29.70	0.00	0.00	0.00	0.10		
01/07/2024 14:00	13.82	0.011387	3.153182	-	-	0.000000	-	30.00	0.00	0.00	0.00	0.10		
01/07/2024 15:00	13.82	0.011602	3.222759	-	-	0.000277	0.0768819	30.70	0.00	0.00	1.37	0.10		
01/07/2024 16:00	13.82	0.011128	3.091057	-	-	0.000000	-	29.60	0.00	0.00	0.00	0.10		
01/07/2024 17:00	13.82	0.011786	3.273776	-	-	0.000000	-	30.80	0.00	0.00	0.00	0.10		
01/07/2024 18:00	13.79	0.011780	3.272334	-	-	0.000000	-	30.90	0.00	0.00	0.00	0.10		
01/07/2024 19:00	13.75	0.011367	3.157585	-	-	0.000000	-	29.70	0.00	0.00	0.00	0.10		
01/07/2024 20:00	13.71	0.011087	3.079705	-	-	0.000000	-	28.90	0.00	0.00	0.00	0.10		
01/07/2024 21:00	13.73	0.011354	3.156555	-	-	0.000000	-	29.30	0.00	0.00	0.00	0.10		
01/07/2024 22:00	13.73	0.011358	3.156977	-	-	0.000000	-	29.20	0.00	0.00	0.00	0.20		
01/07/2024 23:00	13.71	0.011168	3.102235	-	-	0.000000	-	30.60	0.00	0.00	0.00	0.40		
02/07/2024 00:00	13.64	0.009255	2.870774	-	-	0.000000	-	26.00	0.00	0.00	0.00	0.30		
02/07/2024 01:00	13.64	0.009444	2.823369	-	-	0.000000	-	26.10	0.00	0.00	0.00	0.70		
02/07/2024 02:00	13.63	0.009275	2.876387	-	-	0.000000	-	25.60	0.00	0.00	0.00	0.40		
02/07/2024 03:00	13.62	0.009225	2.862454	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.20		
02/07/2024 04:00	13.62	0.009438	2.821561	-	-	0.000000	-	26.30	0.00	0.00	0.00	0.20		
02/07/2024 05:00	13.61	0.009492	2.836708	-	-	0.000000	-	26.20	0.00	0.00	0.00	0.30		
02/07/2024 06:00	13.60	0.009347	2.896361	-	-	0.000000	-	25.90	0.00	0.00	0.00	0.20		
02/07/2024 07:00	13.58	0.008321	2.311288	-	-	0.000000	-	24.00	0.00	0.00	0.00	0.20		
02/07/2024 08:00	13.71	0.009887	2.774095	-	-	0.000000	-	30.60	0.00	0.00	0.00	0.10		
02/07/2024 09:00	13.72	0.010792	2.937860	-	-	0.000000	-	28.40	0.00	0.00	0.00	0.20		
02/07/2024 10:00	13.77	0.011048	3.058518	-	-	0.000000	-	29.20	0.00	0.00	0.00	0.10		
02/07/2024 11:00	13.80	0.010606	2.946179	-	-	0.000000	-	28.80	0.00	0.00	0.00	0.10		
02/07/2024 12:00	14.01	0.010846	3.040463	-	-	0.000000	-	38.50	0.00	0.00	0.00	0.10		
02/07/2024 13:00	13.89	0.011376	3.159712	-	-	0.000000	-	30.50	0.00	0.00	0.00	0.20		
02/07/2024 14:00	13.89	0.011350	3.152934	-	-	0.000000	-	30.10	0.00	0.00	0.00	0.10		
02/07/2024 15:00	13.86	0.010976	3.049382	-	-	0.000276	0.0766500	29.30	0.00	0.00	1.38	0.10		
02/07/2024 16:00	13.87	0.011365	3.156806	-	-	0.000000	-	30.00	0.00	0.00	0.00	0.10		
02/07/2024 17:00	13.84	0.011629	3.230348	-	-	0.000000	-	30.10	0.00	0.00	0.00	0.20		
02/07/2024 18:00	13.80	0.011470	3.186188	-	-	0.000000	-	29.60	0.00	0.00	0.00	0.20		
02/07/2024 19:00	13.75	0.011321	3.144718	-	-	0.000000	-	29.30	0.00	0.00	0.00	0.10		
02/07/2024 20:00	13.72	0.011338	3.149453	-	-	0.000000	-	29.30	0.00	0.00	0.00	0.10		
02/07/2024 21:00	13.70	0.011485	3.194609	-	-	0.000000	-	29.30	0.00	0.00	0.00	0.10		
02/07/2024 22:00	13.70	0.011429	3.174706	-	-	0.000000	-	29.10	0.00	0.00	0.00	0.10		
02/07/2024 23:00	13.72	0.011151	3.097370	-	-	0.000000	-	30.40	0.00	0.00	0.00	0.10		
03/07/2024 00:00	13.67	0.009564	2.656539	-	-	0.000000	-	26.70	0.00	0.00	0.00	0.20		
03/07/2024 01:00	13.66	0.009229	2.758134	-	-	0.000000	-	27.20	0.00	0.00	0.00	0.10		
03/07/2024 02:00	13.66	0.010053	2.732838	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.10		
03/07/2024 03:00	13.62	0.009508	2.641227	-	-	0.000000	-	26.20	0.00	0.00	0.00	0.30		
03/07/2024 04:00	13.62	0.009283	2.578881	-	-	0.000000	-	25.90	0.00	0.00	0.00	0.20		
03/07/2024 05:00	13.64	0.009358	2.628683	-	-	0.000000	-	26.40	0.00	0.00	0.00	0.50		
03/07/2024 06:00	13.63	0.009309	2.605726	-	-	0.000000	-	26.80	0.00	0.00	0.00	0.20		
03/07/2024 07:00	13.63	0.008710	2.419578	-	-	0.000000	-	24.60	0.00	0.00	0.00	0.40		
03/07/2024 08:00	13.76	0.009927	2.757387	-	-	0.000000	-	30.30	0.00	0.00	0.00	0.30		
03/07/2024 09:00	13.73	0.010383	2.804748	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.10		
03/07/2024 10:00	13.78	0.010649	2.963566	-	-	0.000000	-	28.20	0.00	0.00	0.00	0.10		
03/07/2024 11:00	13.81	0.010718	2.977327	-	-	0.000000	-	28.30	0.00	0.00	0.00	0.10		
03/07/2024 12:00	13.89	0.010041	2.789188	-	-	0.000000	-	34.20	0.00	0.00	0.00	0.00		
03/07/2024 13:00	13.76	0.010991	3.052944	-	-	0.000000	-	28.60	0.00	0.00	0.00	0.10		
03/07/2024 14:00	13.77	0.011007	3.057073	-	-	0.000000	-	28.70	0.00	0.00	0.00	0.10		
03/07/2024 15:00	13.73	0.010847	3.012943	-	-	0.000278	0.0773111	28.10	0.00	0.00	1.36	0.10		
03/07/2024 16:00	13.70	0.010740	2.983389	-	-	0.000000	-	28.00	0.00	0.00	0.00	0.10		
03/07/2024 17:00	13.70	0.010927	3.007638	-	-	0.000000	-	28.10	0.00	0.00	0.00	0.10		
03/07/2024 18:00	13.68	0.010737	2.982631	-	-	0.000000	-	27.80	0.00	0.00	0.00	0.10		
03/07/2024 19:00	13.67	0.010597	2.943733	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.10		
03/07/2024 20:00	13.68	0.010716	2.976816	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.20		
03/07/2024 21:00	13.68	0.010802	3.000442	-	-	0.000000	-	27.70	0.00	0.00	0.00	0.20		
03/07/2024 22:00	13.68	0.010818	3.015905	-	-	0.000000	-	27.80	0.00	0.00	0.00	0.10		
03/07/2024 23:00	13.71	0.010784	2.998466	-	-	0.000000	-	29.60	0.00	0.00	0.00	0.10		
04/07/2024 00:00	13.64	0.009136	2.537870	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.20		
04/07/2024 01:00	13.62	0.009196	2.554489	-	-	0.000000	-	25.20	0.00	0.00	0.00	0.10		
04/07/2024 02:00	13.63	0.009088	2.463422	-	-	0.000000	-	25.20	0.00	0.00	0.00	0.10		
04/07/2024 03:00	13.62	0.008954	2.487214	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.40		
04/07/2024 04:00	13.60	0.008720	2.4222282											



Site Name: GULF NLL  
 Stack Name: HRSO STACK2  
 Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Co.	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		O2		NOx		SOx		Dust		HRSG2_NOx@7%O2	HRSG2_SOx@7%O2	HRSG2_Dust@7%O2	HRSG2_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm		
06/07/2024 03:00	13.60	0.008204	2.278012	-	-	0.000000	-	23.00	0.00	0.00	0.00	0.20		
06/07/2024 04:00	13.63	0.008062	2.238477	-	-	0.000000	-	22.80	0.00	0.00	0.00	0.50		
06/07/2024 05:00	13.65	0.008373	2.326900	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.20		
06/07/2024 06:00	13.64	0.008378	2.327176	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.20		
06/07/2024 07:00	13.61	0.007526	2.090570	-	-	0.000000	-	21.70	0.00	0.00	0.00	0.20		
06/07/2024 08:00	13.75	0.009437	2.621519	-	-	0.000000	-	23.50	0.00	0.00	0.00	0.10		
06/07/2024 09:00	13.74	0.009448	2.624524	-	-	0.000000	-	25.00	0.00	0.00	0.00	0.20		
06/07/2024 10:00	13.79	0.009365	2.601503	-	-	0.000000	-	24.90	0.00	0.00	0.00	0.20		
06/07/2024 11:00	13.82	0.009502	2.638434	-	-	0.000000	-	25.60	0.00	0.00	0.00	0.10		
06/07/2024 12:00	14.01	0.009921	2.755736	-	-	0.000000	-	35.00	0.00	0.00	0.00	0.10		
06/07/2024 13:00	13.91	0.009767	2.713138	-	-	0.000000	-	26.10	0.00	0.00	0.00	0.10		
06/07/2024 14:00	13.89	0.009618	2.691230	-	-	0.000000	-	26.00	0.00	0.00	0.00	0.10		
06/07/2024 15:00	13.87	0.009723	2.709816	-	-	0.000276	0.0767083	25.80	0.00	1.38	0.00	0.10		
06/07/2024 16:00	13.84	0.009244	2.567905	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.10		
06/07/2024 17:00	13.84	0.009450	2.635985	-	-	0.000000	-	25.50	0.00	0.00	0.00	0.10		
06/07/2024 18:00	13.79	0.009553	2.653701	-	-	0.000000	-	25.40	0.00	0.00	0.00	0.10		
06/07/2024 19:00	13.77	0.009380	2.605517	-	-	0.000000	-	25.00	0.00	0.00	0.00	0.10		
06/07/2024 20:00	13.76	0.009545	2.651481	-	-	0.000000	-	25.00	0.00	0.00	0.00	0.10		
06/07/2024 21:00	13.75	0.009553	2.653513	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.10		
06/07/2024 22:00	13.77	0.009577	2.660255	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.10		
06/07/2024 23:00	13.79	0.009599	2.666275	-	-	0.000000	-	27.00	0.00	0.00	0.00	0.20		
07/07/2024 00:00	13.68	0.007841	2.178170	-	-	0.000000	-	22.30	0.00	0.00	0.00	0.20		
07/07/2024 01:00	13.68	0.008047	2.235155	-	-	0.000000	-	22.40	0.00	0.00	0.00	0.10		
07/07/2024 02:00	13.66	0.007545	2.095885	-	-	0.000000	-	21.40	0.00	0.00	0.00	0.30		
07/07/2024 03:00	13.66	0.007417	2.060332	-	-	0.000000	-	21.10	0.00	0.00	0.00	0.20		
07/07/2024 04:00	13.64	0.007213	2.003181	-	-	0.000000	-	20.70	0.00	0.00	0.00	0.30		
07/07/2024 05:00	13.63	0.007102	1.972626	-	-	0.000000	-	20.50	0.00	0.00	0.00	0.50		
07/07/2024 06:00	13.66	0.007086	1.941353	-	-	0.000000	-	20.40	0.00	0.00	0.00	0.40		
07/07/2024 07:00	13.65	0.006210	1.724943	-	-	0.000000	-	18.80	0.00	0.00	0.00	0.40		
07/07/2024 08:00	13.69	0.008802	2.411662	-	-	0.000000	-	17.90	0.00	0.00	0.00	0.10		
07/07/2024 09:00	13.72	0.008584	2.326243	-	-	0.000000	-	18.00	0.00	0.00	0.00	0.10		
07/07/2024 10:00	13.77	0.008699	2.383185	-	-	0.000000	-	17.70	0.00	0.00	0.00	0.20		
07/07/2024 11:00	13.83	0.008189	2.179157	-	-	0.000000	-	19.90	0.00	0.00	0.00	0.10		
07/07/2024 12:00	13.84	0.008203	2.232040	-	-	0.000000	-	19.60	0.00	0.00	0.00	0.10		
07/07/2024 13:00	13.81	0.008550	2.319336	-	-	0.000000	-	19.90	0.00	0.00	0.00	0.10		
07/07/2024 14:00	13.79	0.007126	1.978510	-	-	0.000000	-	21.30	0.00	0.00	0.00	0.10		
07/07/2024 15:00	13.78	0.008400	2.188759	-	-	0.000241	0.0649278	20.50	0.00	1.37	0.00	0.10		
07/07/2024 16:00	13.77	0.008266	2.181206	-	-	0.000000	-	19.80	0.00	0.00	0.00	0.10		
07/07/2024 17:00	13.86	0.008494	2.358431	-	-	0.000000	-	27.60	0.00	0.00	0.00	0.10		
07/07/2024 18:00	13.84	0.009348	2.602089	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.20		
07/07/2024 19:00	13.75	0.008678	2.410542	-	-	0.000000	-	23.60	0.00	0.00	0.00	0.20		
07/07/2024 20:00	13.73	0.008631	2.397518	-	-	0.000000	-	23.20	0.00	0.00	0.00	0.20		
07/07/2024 21:00	13.73	0.008638	2.398400	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.20		
07/07/2024 22:00	13.73	0.009132	2.536611	-	-	0.000000	-	24.20	0.00	0.00	0.00	0.20		
07/07/2024 23:00	13.73	0.010500	2.916426	-	-	0.000000	-	26.20	0.00	0.00	0.00	0.30		
08/07/2024 00:00	13.75	0.010507	2.918742	-	-	0.000000	-	26.20	0.00	0.00	0.00	0.10		
08/07/2024 01:00	13.74	0.010289	2.858125	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.30		
08/07/2024 02:00	13.74	0.010267	2.851889	-	-	0.000000	-	25.70	0.00	0.00	0.00	0.10		
08/07/2024 03:00	13.74	0.010197	2.832496	-	-	0.000000	-	25.70	0.00	0.00	0.00	0.10		
08/07/2024 04:00	13.75	0.010209	2.835845	-	-	0.000000	-	25.70	0.00	0.00	0.00	0.50		
08/07/2024 05:00	13.74	0.010204	2.834566	-	-	0.000000	-	25.60	0.00	0.00	0.00	0.50		
08/07/2024 06:00	13.73	0.010110	2.808299	-	-	0.000000	-	25.40	0.00	0.00	0.00	0.30		
08/07/2024 07:00	13.72	0.010078	2.799399	-	-	0.000000	-	25.30	0.00	0.00	0.00	0.20		
08/07/2024 08:00	13.71	0.010292	2.854820	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.30		
08/07/2024 09:00	13.69	0.011360	3.155468	-	-	0.000000	-	27.70	0.00	0.00	0.00	0.20		
08/07/2024 10:00	13.70	0.010297	2.860184	-	-	0.000000	-	26.10	0.00	0.00	0.00	0.20		
08/07/2024 11:00	13.72	0.008917	2.477007	-	-	0.000000	-	23.50	0.00	0.00	0.00	0.20		
08/07/2024 12:00	13.87	0.009343	2.595237	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.10		
08/07/2024 13:00	13.80	0.009844	2.484528	-	-	0.000000	-	23.80	0.00	0.00	0.00	0.10		
08/07/2024 14:00	13.87	0.008993	2.467454	-	-	0.000000	-	22.80	0.00	0.00	0.00	0.10		
08/07/2024 15:00	13.89	0.009143	2.539647	-	-	0.000274	0.0762028	24.50	0.00	1.38	0.00	0.10		
08/07/2024 16:00	13.88	0.009041	2.511437	-	-	0.000000	-	24.20	0.00	0.00	0.00	0.10		
08/07/2024 17:00	13.86	0.009343	2.595378	-	-	0.000000	-	24.50	0.00	0.00	0.00	0.10		
08/07/2024 18:00	13.81	0.008991	2.497410	-	-	0.000000	-	23.90	0.00	0.00	0.00	0.10		
08/07/2024 19:00	13.78	0.008051	2.444619	-	-	0.000000	-	23.50	0.00	0.00	0.00	0.10		
08/07/2024 20:00	13.78	0.010584	2.925627	-	-	0.000000	-	26.90	0.00	0.00	0.00	0.10		
08/07/2024 21:00	13.75	0.009178	2.545378	-	-	0.000000	-	23.90	0.00	0.00	0.00	0.10		
08/07/2024 22:00	13.75	0.009138	2.538215	-	-	0.000000	-	23.80	0.00	0.00	0.00	0.10		
08/07/2024 23:00	13.76	0.009120	2.531308	-	-	0.000000	-	24.00	0.00	0.00	0.00	0.10		
09/07/2024 00:00	13.76	0.010535	2.925603	-	-	0.000000	-	26.30	0.00	0.00	0.00	0.20		
09/07/2024 01:00	13.76	0.010284	2.856641	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.20		
09/07/2024 02:00	13.77	0.010374	2.881757	-	-	0.000000	-	25.90	0.00	0.00	0.00	0.10		
09/07/2024 03:00	13.76	0.009336	2.769042	-	-	0.000000	-	25.00	0.00	0.00	0.00	0.10		
09/07/2024 04:00	13.76	0.010243	2.789595	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.20		
09/07/2024 05:00	13.77	0.009951	2.764055	-	-	0.000000	-	25.00	0.00	0.00	0.00	0.20		
09/07/2024 06:00	13.75	0.008927	2.728851	-	-	0.000000	-	24.70	0.00	0.00	0.00	0.10		
09/07/2024 07:00	13.74	0.009715	2.698479	-	-	0.000000	-	24.40	0.00	0.00	0.00	0.30		
09/07/2024 08:00	13.73	0.008963	2.489707	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.30		
09/07														



Date & Time	Operation Code	O2		NOx		SOx		Dust	Emission Concentration					Standard Comparison		Remark
		%	ppm	(ppb)	(ppb)	(ppb)	(ppb)		HRSG2 NOx@7%O2	HRSG2 SO2@7%O2	HRSG2 CO@7%O2	HRSG2 O2@7%O2				
11/07/2024 06:00	13.74	0.009436	2.621101	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.30				
11/07/2024 07:00	13.74	0.009422	2.617127	-	-	0.000000	-	23.80	0.00	0.00	0.00	0.50				
11/07/2024 08:00	13.73	0.010469	2.908170	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.30				
11/07/2024 09:00	13.71	0.008401	2.333466	-	-	0.000000	-	22.10	0.00	0.00	0.00	0.20				
11/07/2024 10:00	13.82	0.008199	2.332050	-	-	0.000000	-	21.50	0.00	0.00	0.00	0.10				
11/07/2024 11:00	13.72	0.007722	2.158196	-	-	0.000000	-	20.80	0.00	0.00	0.00	0.20				
11/07/2024 12:00	13.94	0.009284	2.578948	-	-	0.000000	-	32.80	0.00	0.00	0.00	0.00				
11/07/2024 13:00	13.85	0.007192	2.192196	-	-	0.000000	-	21.40	0.00	0.00	0.00	0.10				
11/07/2024 14:00	13.87	0.008137	2.460366	-	-	0.000000	-	23.40	0.00	0.00	0.00	0.10				
11/07/2024 15:00	13.88	0.008067	2.540941	-	-	0.000273	0.0757944	21.80	0.00	0.00	1.39	0.10				
11/07/2024 16:00	13.92	0.008433	2.342582	-	-	0.000000	-	22.70	0.00	0.00	0.00	0.10				
11/07/2024 17:00	13.89	0.008679	2.410960	-	-	0.000000	-	23.00	0.00	0.00	0.00	0.10				
11/07/2024 18:00	13.82	0.008170	2.380560	-	-	0.000000	-	21.90	0.00	0.00	0.00	0.10				
11/07/2024 19:00	13.87	0.008381	2.327939	-	-	0.000000	-	22.70	0.00	0.00	0.00	0.20				
11/07/2024 20:00	13.82	0.008534	2.370584	-	-	0.000000	-	22.40	0.00	0.00	0.00	0.10				
11/07/2024 21:00	13.83	0.008167	2.490726	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.20				
11/07/2024 22:00	13.82	0.008191	2.469796	-	-	0.000000	-	23.30	0.00	0.00	0.00	0.10				
11/07/2024 23:00	13.84	0.008135	2.482019	-	-	0.000000	-	23.40	0.00	0.00	0.00	0.20				
12/07/2024 00:00	13.82	0.010170	2.924908	-	-	0.000000	-	25.50	0.00	0.00	0.00	0.40				
12/07/2024 01:00	13.85	0.009743	2.706459	-	-	0.000000	-	24.60	0.00	0.00	0.00	0.20				
12/07/2024 02:00	13.85	0.009461	2.483611	-	-	0.000000	-	24.50	0.00	0.00	0.00	0.10				
12/07/2024 03:00	13.84	0.008637	2.677031	-	-	0.000000	-	24.40	0.00	0.00	0.00	0.20				
12/07/2024 04:00	13.83	0.009578	2.460584	-	-	0.000000	-	24.30	0.00	0.00	0.00	0.10				
12/07/2024 05:00																



Site Name: GULF NLL  
Stack Name: HRS5 STACK2  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	Operation Co		Emission Loading				Emission Concentration for Standardization Comparison				Remark		
	O2		NOx		SOx		Dust		HS602			HS602	
	%	Ton	(g/s)	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm		mg/m3	ppm
16/07/2024 09:00	14.04	0.009979	2.771915	-	-	0.000000	-	27.60	0.00	0.00	0.20		
16/07/2024 10:00	14.00	0.010595	2.842986	-	-	0.000000	-	28.80	0.00	0.00	0.20		
16/07/2024 11:00	13.99	0.010636	2.954536	-	-	0.000000	-	29.10	0.00	0.00	0.20		
16/07/2024 12:00	13.81	0.010660	2.961152	-	-	0.000000	-	36.70	0.00	0.00	0.00		
16/07/2024 13:00	13.25	0.011773	3.270278	-	-	0.000000	-	29.00	0.00	0.00	0.10		
16/07/2024 14:00	13.17	0.012611	3.503149	-	-	0.000000	-	30.10	0.00	0.00	0.10		
16/07/2024 15:00	13.10	0.012482	3.487152	-	-	0.000276	0.0767861	29.90	0.00	1.25	0.10		
16/07/2024 16:00	13.07	0.012645	3.512520	-	-	0.000000	-	30.00	0.00	0.00	0.10		
16/07/2024 17:00	13.05	0.012736	3.537746	-	-	0.000000	-	30.10	0.00	0.00	0.10		
16/07/2024 18:00	13.04	0.012616	3.504571	-	-	0.000000	-	29.90	0.00	0.00	0.10		
16/07/2024 19:00	13.03	0.012566	3.490439	-	-	0.000000	-	29.80	0.00	0.00	0.10		
16/07/2024 20:00	13.02	0.012626	3.507220	-	-	0.000000	-	29.70	0.00	0.00	0.10		
16/07/2024 21:00	13.00	0.012613	3.503698	-	-	0.000000	-	29.70	0.00	0.00	0.10		
16/07/2024 22:00	12.99	0.012642	3.511636	-	-	0.000000	-	29.60	0.00	0.00	0.10		
16/07/2024 23:00	13.40	0.012577	3.493491	-	-	0.000000	-	36.50	0.00	0.00	235.90		
17/07/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/07/2024 09:00	12.91	0.011665	3.240173	-	-	0.000000	-	27.90	0.00	0.00	0.10		
17/07/2024 10:00	12.90	0.012076	3.354363	-	-	0.000000	-	28.60	0.00	0.00	0.10		
17/07/2024 11:00	12.90	0.012128	3.368339	-	-	0.000000	-	29.00	0.00	0.00	0.10		
17/07/2024 12:00	13.10	0.012475	3.465312	-	-	0.000000	-	39.30	0.00	0.00	0.00		
17/07/2024 13:00	12.89	0.012479	3.464509	-	-	0.000000	-	29.60	0.00	0.00	0.00		
17/07/2024 14:00	12.89	0.012506	3.473658	-	-	0.000000	-	29.60	0.00	0.00	0.00		
17/07/2024 15:00	12.87	0.012830	3.564012	-	-	0.000276	0.0764500	30.00	0.00	1.21	0.10		
17/07/2024 16:00	12.87	0.012631	3.508511	-	-	0.000000	-	29.60	0.00	0.00	0.10		
17/07/2024 17:00	12.85	0.012713	3.531527	-	-	0.000000	-	29.40	0.00	0.00	0.10		
17/07/2024 18:00	12.85	0.012666	3.490459	-	-	0.000000	-	29.40	0.00	0.00	0.10		
17/07/2024 19:00	12.84	0.012445	3.458878	-	-	0.000000	-	29.20	0.00	0.00	0.10		
17/07/2024 20:00	12.84	0.012505	3.473658	-	-	0.000000	-	29.20	0.00	0.00	0.10		
17/07/2024 21:00	12.84	0.012422	3.450470	-	-	0.000000	-	29.00	0.00	0.00	0.10		
17/07/2024 22:00	12.86	0.012466	3.458439	-	-	0.000000	-	29.20	0.00	0.00	0.10		
17/07/2024 23:00	12.90	0.012780	3.550509	-	-	0.000000	-	31.80	0.00	0.00	0.10		
18/07/2024 00:00	12.80	0.010356	2.862734	-	-	0.000000	-	26.50	0.00	0.00	0.10		
18/07/2024 01:00	12.76	0.010507	2.778817	-	-	0.000000	-	26.20	0.00	0.00	0.10		
18/07/2024 02:00	12.77	0.010518	2.921706	-	-	0.000000	-	26.10	0.00	0.00	0.10		
18/07/2024 03:00	12.76	0.010261	2.850307	-	-	0.000000	-	25.60	0.00	0.00	0.10		
18/07/2024 04:00	12.75	0.009739	2.705283	-	-	0.000000	-	24.70	0.00	0.00	0.10		
18/07/2024 05:00	12.76	0.010067	2.786264	-	-	0.000000	-	25.40	0.00	0.00	0.10		
18/07/2024 06:00	12.74	0.009545	2.651527	-	-	0.000000	-	24.40	0.00	0.00	0.10		
18/07/2024 07:00	12.74	0.009380	2.605527	-	-	0.000000	-	24.20	0.00	0.00	0.10		
18/07/2024 08:00	12.92	0.010861	3.016914	-	-	0.000000	-	30.90	0.00	0.00	0.00		
18/07/2024 09:00	12.83	0.011666	3.246444	-	-	0.000000	-	27.70	0.00	0.00	0.10		
18/07/2024 10:00	12.81	0.011512	3.197706	-	-	0.000000	-	27.90	0.00	0.00	0.10		
18/07/2024 11:00	12.82	0.011650	3.236185	-	-	0.000000	-	28.00	0.00	0.00	0.10		
18/07/2024 12:00	13.02	0.012351	3.420820	-	-	0.000000	-	38.90	0.00	0.00	0.00		
18/07/2024 13:00	12.80	0.011812	3.256444	-	-	0.000000	-	27.70	0.00	0.00	0.10		
18/07/2024 14:00	12.83	0.011768	3.266000	-	-	0.000000	-	28.10	0.00	0.00	0.10		
18/07/2024 15:00	12.83	0.011905	3.306936	-	-	0.000268	0.0745694	28.50	0.00	1.21	0.10		
18/07/2024 16:00	12.81	0.011701	3.250196	-	-	0.000000	-	27.80	0.00	0.00	0.10		
18/07/2024 17:00	12.80	0.011967	3.318606	-	-	0.000000	-	28.10	0.00	0.00	0.10		
18/07/2024 18:00	12.80	0.011721	3.255778	-	-	0.000000	-	28.10	0.00	0.00	0.10		
18/07/2024 19:00	12.79	0.011559	3.210781	-	-	0.000000	-	27.70	0.00	0.00	0.10		
18/07/2024 20:00	12.80	0.011619	3.227609	-	-	0.000000	-	27.70	0.00	0.00	0.10		
18/07/2024 21:00	12.80	0.011860	3.289500	-	-	0.000000	-	27.90	0.00	0.00	0.10		
18/07/2024 22:00	12.80	0.011969	3.324605	-	-	0.000000	-	28.10	0.00	0.00	0.10		
18/07/2024 23:00	12.85	0.012185	3.384637	-	-	0.000000	-	30.60	0.00	0.00	0.10		
19/07/2024 00:00	12.76	0.010355	2.876416	-	-	0.000000	-	26.30	0.00	0.00	0.10		
19/07/2024 01:00	12.74	0.009836	2.723333	-	-	0.000000	-	24.80	0.00	0.00	0.10		
19/07/2024 02:00	12.74	0.010153	2.831305	-	-	0.000000	-	25.30	0.00	0.00	0.10		
19/07/2024 03:00	12.72	0.009677	2.688131	-	-	0.000000	-	24.40	0.00	0.00	0.10		
19/07/2024 04:00	12.72	0.009745	2.706945	-	-	0.000000	-	24.50	0.00	0.00	0.10		
19/07/2024 05:00	12.73	0.010263	2.850772	-	-	0.000000	-	25.40	0.00	0.00	0.10		
19/07/2024 06:00	12.72	0.009640	2.677684	-	-	0.000000	-	24.30	0.00	0.00	0.10		
19/07/2024 07:00	12.70	0.008816	2.443945	-	-	0.000000	-	22.90	0.00	0.00	0.10		
19/07/2024 08:00	12.87	0.010990	3.052786	-	-	0.000000	-	27.00	0.00	0.00	0.00		
19/07/2024 09:00	12.78	0.011173	3.103720	-	-	0.000000	-	26.80	0.00	0.00	0.10		
19/07/2024 10:00	12.79	0.011266	3.129369	-	-	0.000000	-	26.90	0.00	0.00	0.10		
19/07/2024 11:00	12.77	0.011227	3.118703	-	-	0.000000	-	26.90	0.00	0.00	0.00		
19/07/2024 12:00	13.01	0.011994	3.331676	-	-	0.000000	-	37.60	0.00	0.00	0.00		
19/07/2024 13:00	12.79	0.011583	3.217596	-	-	0.000000	-	27.50	0.00	0.00	0.00		
19/07/2024 14:00	12.78	0.011463	3.184191	-	-	0.000000	-	27.30	0.00	0.00	0.10		
19/07/2024 15:00	12.76	0.011535	3.204134	-	-	0.000276	0.0749778	27.30	0.00	1.20	0.00		
19/07/2024 16:00	12.77	0.011381	3.161369	-	-	0.000000	-	26.90	0.00	0.00	0.10		
19/07/2024 17:00	12.76	0.011147	3.096383	-	-	0.000000	-	26.70	0.00	0.00	0.10		
19/07/2024 18:00	12.77	0.011245	3.123626	-	-	0.000000	-	26.90	0				



Site Name: GULF NLL  
Stack Name: HRSR STACK2  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	O2	Emission Loading				Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSG2 NOx@7%O2	HRSG2 SOx@7%O2	
		Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	
21/07/2024 12:00	12.79	0.013416	3.782180	-	-	0.000000	-	30.10	0.00	0.10
21/07/2024 13:00	12.80	0.013354	3.709574	-	-	0.000000	-	29.60	0.00	0.10
21/07/2024 14:00	12.80	0.013222	3.672891	-	-	0.000000	-	29.60	0.00	0.10
21/07/2024 15:00	12.76	0.013293	3.692626	-	-	0.000288	0.0798778	29.30	0.00	0.10
21/07/2024 16:00	12.76	0.013581	3.772580	-	-	0.000000	-	29.90	0.00	0.10
21/07/2024 17:00	12.78	0.013348	3.707407	-	-	0.000000	-	29.40	0.00	0.10
21/07/2024 18:00	12.75	0.013459	3.738506	-	-	0.000000	-	29.50	0.00	0.10
21/07/2024 19:00	12.73	0.013326	3.701542	-	-	0.000000	-	29.10	0.00	0.10
21/07/2024 20:00	12.72	0.012785	3.551438	-	-	0.000000	-	28.50	0.00	0.10
21/07/2024 21:00	12.73	0.013332	3.703329	-	-	0.000000	-	29.10	0.00	0.10
21/07/2024 22:00	12.76	0.012870	3.676092	-	-	0.000000	-	28.30	0.00	0.00
21/07/2024 23:00	12.78	0.013154	3.653833	-	-	0.000000	-	28.90	0.00	0.10
22/07/2024 00:00	12.79	0.013225	3.673676	-	-	0.000000	-	29.20	0.00	0.00
22/07/2024 01:00	12.79	0.012890	3.571694	-	-	0.000000	-	28.40	0.00	0.10
22/07/2024 02:00	12.79	0.012625	3.500704	-	-	0.000000	-	28.00	0.00	0.00
22/07/2024 03:00	12.78	0.012627	3.479632	-	-	0.000000	-	27.80	0.00	0.00
22/07/2024 04:00	12.78	0.012621	3.477939	-	-	0.000000	-	27.70	0.00	0.10
22/07/2024 05:00	12.77	0.012605	3.473706	-	-	0.000000	-	27.70	0.00	0.10
22/07/2024 06:00	12.78	0.012481	3.446933	-	-	0.000000	-	27.80	0.00	0.10
22/07/2024 07:00	12.79	0.012611	3.475399	-	-	0.000000	-	27.80	0.00	0.00
22/07/2024 08:00	12.81	0.012949	3.594628	-	-	0.000000	-	28.60	0.00	0.00
22/07/2024 09:00	12.82	0.013800	3.760113	-	-	0.000000	-	30.00	0.00	0.00
22/07/2024 10:00	12.81	0.013348	3.707407	-	-	0.000000	-	29.60	0.00	0.10
22/07/2024 11:00	12.80	0.013571	3.769836	-	-	0.000000	-	30.00	0.00	0.10
22/07/2024 12:00	12.82	0.013754	3.820509	-	-	0.000000	-	30.70	0.00	0.10
22/07/2024 13:00	12.83	0.013737	3.818987	-	-	0.000000	-	30.70	0.00	0.10
22/07/2024 14:00	12.82	0.013717	3.810276	-	-	0.000000	-	30.50	0.00	0.10
22/07/2024 15:00	12.81	0.013841	3.844778	-	-	0.000288	0.0799167	30.70	0.00	0.10
22/07/2024 16:00	12.80	0.013435	3.731926	-	-	0.000000	-	29.90	0.00	0.10
22/07/2024 17:00	12.81	0.013947	3.719480	-	-	0.000000	-	27.60	0.00	0.10
22/07/2024 18:00	12.75	0.011402	3.167112	-	-	0.000000	-	26.70	0.00	0.10
22/07/2024 19:00	12.74	0.010479	2.910977	-	-	0.000000	-	24.90	0.00	0.10
22/07/2024 20:00	12.73	0.010386	2.884877	-	-	0.000000	-	24.60	0.00	0.10
22/07/2024 21:00	12.74	0.010665	2.934456	-	-	0.000000	-	25.10	0.00	0.10
22/07/2024 22:00	12.80	0.010948	2.935443	-	-	0.000000	-	27.70	0.00	0.10
22/07/2024 23:00	12.68	0.007729	2.146950	-	-	0.000000	-	29.40	0.00	0.10
23/07/2024 00:00	12.71	0.007486	2.079439	-	-	0.000000	-	29.10	0.00	0.10
23/07/2024 01:00	12.71	0.007490	2.080472	-	-	0.000000	-	29.10	0.00	0.10
23/07/2024 02:00	12.72	0.007704	2.139141	-	-	0.000000	-	29.40	0.00	0.10
23/07/2024 03:00	12.73	0.008007	2.224117	-	-	0.000000	-	29.90	0.00	0.10
23/07/2024 04:00	12.71	0.007492	2.136633	-	-	0.000000	-	29.30	0.00	0.10
23/07/2024 05:00	12.71	0.007446	2.123303	-	-	0.000000	-	29.20	0.00	0.10
23/07/2024 06:00	12.71	0.007455	2.126390	-	-	0.000000	-	29.30	0.00	0.10
23/07/2024 07:00	12.71	0.007361	2.044800	-	-	0.000000	-	19.70	0.00	0.10
23/07/2024 08:00	12.91	0.010525	2.923681	-	-	0.000000	-	29.40	0.00	0.00
23/07/2024 09:00	12.83	0.010437	2.893275	-	-	0.000000	-	25.00	0.00	0.10
23/07/2024 10:00	12.85	0.010730	2.987165	-	-	0.000000	-	25.60	0.00	0.10
23/07/2024 11:00	12.85	0.010595	2.943017	-	-	0.000000	-	25.60	0.00	0.10
23/07/2024 12:00	13.04	0.011345	3.151329	-	-	0.000000	-	35.30	0.00	0.00
23/07/2024 13:00	12.86	0.010997	3.054156	-	-	0.000000	-	26.10	0.00	0.10
23/07/2024 14:00	12.85	0.010717	3.060395	-	-	0.000000	-	25.90	0.00	0.10
23/07/2024 15:00	12.84	0.010916	3.032206	-	-	0.000273	0.0757167	25.70	0.00	0.10
23/07/2024 16:00	12.86	0.011043	3.067451	-	-	0.000000	-	26.00	0.00	0.10
23/07/2024 17:00	12.86	0.011563	3.111821	-	-	0.000000	-	26.80	0.00	0.10
23/07/2024 18:00	12.84	0.011537	3.204792	-	-	0.000000	-	26.60	0.00	0.10
23/07/2024 19:00	12.79	0.011712	3.253353	-	-	0.000000	-	25.60	0.00	0.10
23/07/2024 20:00	12.81	0.011413	3.170415	-	-	0.000000	-	25.40	0.00	0.10
23/07/2024 21:00	12.82	0.011590	3.219530	-	-	0.000000	-	25.80	0.00	0.10
23/07/2024 22:00	12.81	0.011006	3.067124	-	-	0.000000	-	25.50	0.00	0.10
23/07/2024 23:00	12.85	0.011277	3.132515	-	-	0.000000	-	28.00	0.00	0.10
24/07/2024 00:00	12.77	0.009017	2.504674	-	-	0.000000	-	23.30	0.00	0.10
24/07/2024 01:00	12.76	0.009149	2.441372	-	-	0.000000	-	22.80	0.00	0.10
24/07/2024 02:00	12.76	0.009480	2.446676	-	-	0.000000	-	22.30	0.00	0.10
24/07/2024 03:00	12.75	0.008727	2.424297	-	-	0.000000	-	22.10	0.00	0.10
24/07/2024 04:00	12.84	0.008193	2.498169	-	-	0.000000	-	22.70	0.00	0.10
24/07/2024 05:00	13.05	0.009335	2.509306	-	-	0.000000	-	23.20	0.00	0.10
24/07/2024 06:00	13.05	0.009708	2.418803	-	-	0.000000	-	22.60	0.00	0.10
24/07/2024 07:00	13.02	0.007922	2.200400	-	-	0.000000	-	21.20	0.00	0.10
24/07/2024 08:00	13.17	0.010166	2.823758	-	-	0.000000	-	28.90	0.00	0.10
24/07/2024 09:00	13.13	0.010172	2.825440	-	-	0.000000	-	25.10	0.00	0.10
24/07/2024 10:00	13.13	0.010151	2.819786	-	-	0.000000	-	25.00	0.00	0.10
24/07/2024 11:00	13.14	0.009183	2.739838	-	-	0.000000	-	24.70	0.00	0.10
24/07/2024 12:00	13.35	0.010792	2.987735	-	-	0.000000	-	34.90	0.00	0.00
24/07/2024 13:00	13.18	0.010420	2.944410	-	-	0.000000	-	25.70	0.00	0.10
24/07/2024 14:00	13.16	0.010536	2.925445	-	-	0.000000	-	25.70	0.00	0.10
24/07/2024 15:00	13.17	0.010530	2.925050	-	-	0.000274	0.0751056	25.70	0.00	0.10
24/07/2024 16:00	13.16	0.010433	2.899141	-	-	0.000000	-	25.20	0.00	0.10
24/07/2024 17:00	13.19	0.010793	2.999184	-	-	0.000000	-	26.00	0.00	0.10
24/07/2024 18:00	13.17	0.010723	2.978818	-	-	0.000000	-	26.00	0.00	0.10
24/07/2024 19:00	13.20	0.010908	3.029906	-	-	0.000000	-	26.40	0.00	0.20
24/07/2024 20:00	13.20	0.010696	2.971092	-	-	0.000000	-	25.90	0.00	0.10
24/07/2024 21:00	13.19	0.010759	2.999489	-	-	0.000000	-	26.00	0.00	0.10
24/07/2024 22:00	13.20	0.010834	3.009472	-	-	0.000000	-	25.90	0.00	0.10
24/07/2024 23:00	13.22	0.010566	2.934969	-	-	0.000000	-	27.20	0.00	0.10
25/07/2024 00:00	13.12	0.009521	2.644492	-	-	0.000000	-	24.30	0.00	0.10
25/07/2024 01:00	13.10	0.008990	2.497107	-	-	0.000000	-	23.00	0.00	0.10
25/07/2024 02:00	13.11	0.009246	2.569296	-	-	0.000000	-	23.50	0.00	0.10
25/07/2024 03:00	13.10	0.008822	2.450428	-	-	0.000000	-	22.60	0.00	0.10
25/07/2024 04:00	13.09	0.009327	2.313149	-	-	0.000000	-	21.80	0.00	0.10
25/07/2024 05:00	13.11	0.009116	2.452090	-	-	0.000000	-	23.10	0.00	0.10
25/07/2024 06:00	13.09	0.008968	2.481453	-	-	0.000000	-	22.70	0.00	0.10
25/07/2024 07:00	13.07	0.007903	2.195374	-	-	0.000000	-	20.90	0.00	0.10
25/07/2024 08:00	13.20	0.009672	2.686542	-	-	0.000000	-	27.50	0.00	0.10
25/07/2024 09:00	13.13	0.009165	2.740245	-	-	0.000000	-	24.20	0.00	0.10
25/07/2024 10:00	13.13	0.010167	2.924218	-	-	0.000000	-	24.70	0.00	0.10
25/07/2024 11:00	13.09	0.009197	2.749172	-	-	0.000000	-	24.30	0.00	0.10
25/07/2024 12:00	13.30	0.010778	2.983763	-	-	0.000000	-	34.70	0.00	0.00
25/07/2024 13:00	13.14	0.010614	2.948217	-	-	0.000000	-	25.60	0.00	0.10
25/07/2024 14:00	13.10	0.010579	2.938732	-	-	0.000000	-	25.40	0.00	0.10
25/07/2024 15:00	13.11	0.010346	2.873824	-	-	0.000273	0.0758333	25.20	0.00	0.10
25/07/2024 16:00	13.12	0.010409	2.891509	-	-	0.000000	-	25.20	0.00	0.10
25/07/2024 17:00	13.13	0.010478</								



[illegible]



Site Name: GULF NLL  
Stack Name: HR5G STACK2  
Periodically: 01/07/2024 00:00-31/07/2024 23:59

Date & Time	O2	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HR5G2_NOx@7%O2	HR5G2_SOx@7%O2	HR5G2_Dust@7%O2	HR5G2_CO@7%O2	
		Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm	
31/07/2024 18:00	13.33	0.011754	3.264903	-	-	0.000000	-	29.00	0.00	0.00	0.20	
31/07/2024 19:00	13.32	0.011611	3.197486	-	-	0.000000	-	28.70	0.00	0.00	0.10	
31/07/2024 20:00	13.30	0.011691	3.247521	-	-	0.000000	-	28.70	0.00	0.00	0.10	
31/07/2024 21:00	13.31	0.011732	3.259007	-	-	0.000000	-	28.70	0.00	0.00	0.10	
31/07/2024 22:00	13.31	0.011789	3.274897	-	-	0.000000	-	28.70	0.00	0.00	0.10	
31/07/2024 23:00	13.33	0.011494	3.192741	-	-	0.000000	-	29.90	0.00	0.00	0.10	
Minimum	12.68	0.01	1.58	0.00	0.00	0.00	0.00	17.70	0.00	0.00	0.00	
Maximum	15.68	0.01	3.95	0.00	0.00	0.00	0.08	56.40	0.00	1.46	659.00	
Avg	13.42	0.01	2.90	0.00	0.00	0.00	0.00	26.76	0.00	0.06	3.45	
SUM		6.71		0.00		0.01						
			STD = 5.50		STD = 0.82		STD = 1.58	STD =60	STD = 6	STD =30	STD = 600	



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation	CO2		NOx		SOx				Dust	Emission Concentration for Standardization Comparison						Remark
		%	Ton	(g/s)	(g/s)	Ton	(g/s)	Ton	(g/s)		ppm	ppm	mg/m3	ppm			
01/08/2024 00:00	14.72	0.006701	1.861479	-	-	-	-	0.000207	0.0574500	34.80	0.00	2.02	1.80				
01/08/2024 01:00	14.72	0.006624	1.840037	-	-	-	-	0.000213	0.0590750	33.50	0.00	2.02	1.70				
01/08/2024 02:00	14.72	0.006621	1.839059	-	-	-	-	0.000211	0.0586500	33.70	0.00	2.02	1.80				
01/08/2024 03:00	14.72	0.006604	1.834356	-	-	-	-	0.000211	0.0585000	33.80	0.00	2.02	1.80				
01/08/2024 04:00	14.71	0.006410	1.780506	-	-	-	-	0.000207	0.0575500	33.20	0.00	2.02	1.80				
01/08/2024 05:00	14.72	0.006415	1.782052	-	-	-	-	0.000207	0.0576000	33.30	0.00	2.02	1.80				
01/08/2024 06:00	14.72	0.006522	1.811822	-	-	-	-	0.000208	0.0577500	33.60	0.00	2.02	1.90				
01/08/2024 07:00	14.85	0.006596	1.832349	-	-	-	-	0.000188	0.0521750	38.70	0.00	2.07	1.70				
01/08/2024 08:00	14.82	0.007429	2.063478	-	-	-	-	0.000225	0.0624750	36.10	0.00	2.06	1.80				
01/08/2024 09:00	14.83	0.007364	2.115593	-	-	-	-	0.000220	0.0640250	37.30	0.00	2.06	1.80				
01/08/2024 10:00	14.82	0.007437	2.065955	-	-	-	-	0.000250	0.0695000	36.10	0.00	2.29	1.70				
01/08/2024 11:00	14.81	0.007656	2.126724	-	-	-	-	0.000261	0.0697778	37.10	0.00	2.28	1.80				
01/08/2024 12:00	14.90	0.006734	1.870467	-	-	-	-	0.000176	0.0489000	42.40	0.00	2.09	1.50				
01/08/2024 13:00	14.82	0.006443	2.145185	-	-	-	-	0.000232	0.0644750	39.80	0.00	2.06	1.80				
01/08/2024 14:00	14.84	0.008476	2.354090	-	-	-	-	0.000232	0.0643500	40.20	0.00	2.06	1.80				
01/08/2024 15:00	14.82	0.008287	2.302949	-	-	-	-	0.000230	0.0640250	39.40	0.00	2.06	1.80				
01/08/2024 16:00	14.81	0.008111	2.253085	-	-	-	-	0.000230	0.0637750	38.50	0.00	2.05	1.70				
01/08/2024 17:00	14.81	0.008178	2.271812	-	-	-	-	0.000231	0.0643000	38.70	0.00	2.05	1.70				
01/08/2024 18:00	14.81	0.008085	2.245879	-	-	-	-	0.000230	0.0639500	38.40	0.00	2.05	1.70				
01/08/2024 19:00	14.80	0.008095	2.248513	-	-	-	-	0.000230	0.0640250	38.20	0.00	2.05	1.70				
01/08/2024 20:00	14.81	0.008238	2.289393	-	-	-	-	0.000233	0.0647750	38.50	0.00	2.05	1.70				
01/08/2024 21:00	14.80	0.008261	2.291206	-	-	-	-	0.000234	0.0648750	38.40	0.00	2.05	1.70				
01/08/2024 22:00	14.79	0.008367	2.324145	-	-	-	-	0.000235	0.0654000	38.70	0.00	2.05	1.70				
01/08/2024 23:00	14.78	0.008181	2.272495	-	-	-	-	0.000206	0.0571778	38.40	0.00	1.82	1.80				
02/08/2024 00:00	14.77	0.006483	1.800726	-	-	-	-	0.000178	0.0494000	35.10	0.00	1.81	1.70				
02/08/2024 01:00	14.72	0.006174	1.744992	-	-	-	-	0.000188	0.0520819	31.50	0.00	1.80	1.70				
02/08/2024 02:00	14.73	0.006185	1.717597	-	-	-	-	0.000189	0.0525556	31.30	0.00	1.80	1.80				
02/08/2024 03:00	14.71	0.005946	1.651751	-	-	-	-	0.000208	0.0576750	30.80	0.00	2.02	1.80				
02/08/2024 04:00	14.70	0.005778	1.605077	0.0000600	0.016168	0.000206	0.0573000	30.10	0.00	1.70	1.80						
02/08/2024 05:00	14.71	0.005885	1.634693	-	-	-	-	0.000207	0.0575250	30.40	0.00	2.02	1.80				
02/08/2024 06:00	14.72	0.005862	1.628323	0.0000600	0.016658	0.000206	0.0572750	30.70	0.00	2.02	1.80						
02/08/2024 07:00	14.84	0.006132	1.703348	-	-	-	-	0.000187	0.0519000	36.20	0.00	2.06	1.80				
02/08/2024 08:00	14.80	0.006716	1.845987	-	-	-	-	0.000198	0.0550889	37.20	0.00	1.82	1.80				
02/08/2024 09:00	14.79	0.006478	1.848773	-	-	-	-	0.000223	0.0620900	37.20	0.00	2.05	1.90				
02/08/2024 10:00	14.81	0.006738	1.971607	-	-	-	-	0.000224	0.0621750	37.90	0.00	2.05	1.70				
02/08/2024 11:00	14.81	0.006876	1.910118	-	-	-	-	0.000196	0.0545111	34.00	0.00	1.83	1.70				
02/08/2024 12:00	15.05	0.006388	1.816196	-	-	-	-	0.000151	0.0420000	46.30	0.00	1.90	1.50				
02/08/2024 13:00	14.88	0.006067	1.729200	-	-	-	-	0.000203	0.0637778	38.90	0.00	1.85	1.80				
02/08/2024 14:00	14.85	0.008222	2.283977	-	-	-	-	0.000207	0.0574667	38.80	0.00	1.84	1.80				
02/08/2024 15:00	14.82	0.008177	2.271340	-	-	-	-	0.000207	0.0574889	38.50	0.00	1.83	1.80				
02/08/2024 16:00	14.81	0.008139	2.240804	-	-	-	-	0.000232	0.0643750	38.40	0.00	2.05	1.80				
02/08/2024 17:00	14.81	0.008145	2.242660	-	-	-	-	0.000232	0.0644500	38.30	0.00	2.05	1.80				
02/08/2024 18:00	14.81	0.008238	2.283393	-	-	-	-	0.000233	0.0647750	38.50	0.00	2.05	1.80				
02/08/2024 19:00	14.80	0.008078	2.243856	-	-	-	-	0.000257	0.0714167	38.10	0.00	2.28	2.00				
02/08/2024 20:00	14.81	0.008180	2.272418	-	-	-	-	0.000259	0.0718889	38.30	0.00	2.28	1.80				
02/08/2024 21:00	14.81	0.008112	2.245566	-	-	-	-	0.000268	0.0717222	38.10	0.00	2.28	1.80				
02/08/2024 22:00	14.80	0.008208	2.280120	-	-	-	-	0.000260	0.0721389	38.20	0.00	2.28	1.80				
02/08/2024 23:00	14.78	0.007975	2.215259	-	-	-	-	0.000257	0.0713611	37.60	0.00	2.27	1.80				
03/08/2024 00:00	14.77	0.006384	1.776200	-	-	-	-	0.000201	0.0559500	34.60	0.00	1.84	1.60				
03/08/2024 01:00	14.73	0.006189	1.719553	-	-	-	-	0.000216	0.0600250	30.90	0.00	2.03	1.70				
03/08/2024 02:00	14.73	0.006244	1.734485	-	-	-	-	0.000241	0.0648056	31.00	0.00	2.25	1.80				
03/08/2024 03:00	14.70	0.005869	1.630288	0.0000600	0.016927	0.000233	0.0646667	30.10	0.00	2.24	1.70						
03/08/2024 04:00	14.70	0.005820	1.616731	0.0000600	0.016913	0.000209	0.0581500	29.80	0.00	2.02	1.70						
03/08/2024 05:00	14.70	0.005898	1.639209	0.0000600	0.016913	0.000209	0.0580500	30.20	0.00	2.02	1.80						
03/08/2024 06:00	14.69	0.005785	1.609781	0.0000600	0.016840	0.000208	0.0576000	29.70	0.00	2.01	1.80						
03/08/2024 07:00	14.82	0.005997	1.655971	-	-	-	-	0.000207	0.0575000	35.50	0.00	2.29	1.50				
03/08/2024 08:00	14.76	0.006359	1.766207	0.0000646	0.017938	0.000247	0.0685278	31.00	0.00	2.75	1.70						
03/08/2024 09:00	14.78	0.006581	1.830896	0.0000674	0.018730	0.000258	0.0715566	31.00	0.00	2.27	1.60						
03/08/2024 10:00	14.82	0.006871	1.908892	-	-	-	-	0.000257	0.0714444	32.40	0.00	2.29	1.60				
03/08/2024 11:00	14.79	0.006610	1.836190	-	-	-	-	0.000246	0.0692500	32.60	0.00	2.27	1.70				
03/08/2024 12:00	15.01	0.006738	1.871748	-	-	-	-	0.000190	0.0526319	44.50	0.00	2.36	1.50				
03/08/2024 13:00	14.83	0.007446	2.128881	-	-	-	-	0.000234	0.0705566	36.70	0.00	2.29	1.80				
03/08/2024 14:00	14.83	0.007694	2.137260	-	-	-	-	0.000230	0.0639000	36.60	0.00	2.06	1.80				
03/08/2024 15:00	14.82	0.007878	2.188407	-	-	-	-	0.000257	0.0713611	37.20	0.00	2.29	1.80				
03/08/2024 16:00	14.80	0.007764	2.153983	-	-	-	-	0.000282	0.0732222	36.60	0.00	2.51	1.70				
03/08/2024 17:00	14.80	0.007709	2.141441	-	-	-	-	0.000256	0.0711889	36.40	0.00	2.28	1.70				
03/08/2024 18:00	14.80	0.007730	2.147294	-	-	-	-	0.000282	0.0784667	36.50	0.00	2.51	1.70				
03/08/2024 19:00	14.78	0.007664	2.128889	-	-	-	-	0.000282	0.0728333	36.10	0.00	2.50	1.70				
03/08/2024 20:00	14.78	0.007767	2.154447	-	-	-	-	0.000285	0.0732008	36.20	0.00	2.50	1.70				
03/08/2024 21:00	14.78	0.007803	2.167362	-	-	-	-	0.000285	0.0732008	36.30	0.00	2.50	1.70				
03/08/2024 22:00	14.77	0.007793	2.164618	-	-	-	-	0.000287	0.0735972								



Site Name: GULF NLL  
Stack Name: HRSG 0001  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark				
		CO <sub>2</sub>		NO <sub>x</sub>		SO <sub>x</sub>		Dust		HRSG1_NO <sub>x</sub> @7%O <sub>2</sub>		HRSG1_SO <sub>x</sub> @7%O <sub>2</sub>			HRSG1_Diox (7%O <sub>2</sub> )		HRSG1_CO@7%O <sub>2</sub>	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	(g/s)	ppm	ppm	mg/m3	ppm		ppm	ppm	ppm	
06/08/2024 03:00	14.76	0.007108	1.974446	0.0000692	0.019210	0.000238	0.0640500	32.40	0.10	2.04	1.80							
06/08/2024 04:00	14.77	0.007025	1.951263	0.0000693	0.019254	0.000238	0.0642000	32.00	0.10	2.04	1.70							
06/08/2024 05:00	14.77	0.007229	2.008133	0.0000694	0.019269	0.000239	0.0642500	32.90	0.10	2.04	1.80							
06/08/2024 06:00	14.78	0.007050	1.958413	0.0000691	0.019188	0.000238	0.0643750	32.20	0.10	2.04	1.80							
06/08/2024 07:00	14.76	0.006963	1.934090	0.0000677	0.018818	0.000233	0.0647000	32.40	0.10	2.04	1.80							
06/08/2024 08:00	14.61	0.006134	1.703913	0.0000656	0.018236	0.000226	0.0627000	29.70	0.20	2.05	1.70							
06/08/2024 09:00	14.84	0.006137	1.704937	0.0000652	0.018105	0.000224	0.0625500	30.10	0.20	2.06	1.70							
06/08/2024 10:00	14.84	0.006012	1.689507	0.0000648	0.018010	0.000223	0.0619250	29.50	0.20	2.06	1.60							
06/08/2024 11:00	14.84	0.006121	1.700317	0.0000636	0.017654	0.000219	0.0607000	30.80	0.10	2.06	1.70							
06/08/2024 12:00	15.03	0.006216	1.726598	-	-	0.000170	0.0472000	41.50	0.00	2.13	1.50							
06/08/2024 13:00	14.89	0.007592	2.105212	-	-	0.000231	0.0641750	36.40	0.00	2.08	1.80							
06/08/2024 14:00	14.68	0.007915	2.198577	-	-	0.000235	0.0653250	37.10	0.00	2.08	1.80							
06/08/2024 15:00	14.83	0.007469	2.074818	-	-	0.000232	0.0644500	35.40	0.00	2.06	1.80							
06/08/2024 16:00	14.81	0.007338	2.038340	-	-	0.000231	0.0641500	34.80	0.00	2.05	1.80							
06/08/2024 17:00	14.81	0.007418	2.050546	-	-	0.000232	0.0644250	34.90	0.00	2.05	1.80							
06/08/2024 18:00	14.80	0.007329	2.035957	-	-	0.000231	0.0640750	34.50	0.00	2.05	1.80							
06/08/2024 19:00	14.79	0.007315	2.031915	-	-	0.000256	0.0710556	34.50	0.00	2.27	1.80							
06/08/2024 20:00	14.79	0.007367	2.046284	-	-	0.000232	0.0644000	34.60	0.00	2.05	1.90							
06/08/2024 21:00	14.78	0.007450	2.069342	-	-	0.000233	0.0647000	34.70	0.00	2.05	1.80							
06/08/2024 22:00	14.78	0.007309	2.030334	-	-	0.000233	0.0647500	34.00	0.00	2.04	1.80							
06/08/2024 23:00	14.76	0.007258	2.016224	-	-	0.000257	0.0714444	33.90	0.00	2.26	1.60							
07/08/2024 00:00	14.75	0.007381	2.050282	-	-	0.000263	0.0731389	33.70	0.10	2.26	1.80							
07/08/2024 01:00	14.77	0.007525	1.951263	0.0000693	0.019254	0.000238	0.0642000	31.90	0.10	2.04	1.80							
07/08/2024 02:00	14.79	0.007041	1.961381	0.0000692	0.019217	0.000244	0.0734167	32.40	0.10	2.27	1.70							
07/08/2024 03:00	14.79	0.006927	1.924244	0.0000680	0.019123	0.000210	0.0584444	31.80	0.10	1.82	1.70							
07/08/2024 04:00	14.78	0.006891	1.914132	0.0000690	0.019159	0.000237	0.0658750	31.60	0.10	2.04	1.80							
07/08/2024 05:00	14.79	0.006951	1.930979	0.0000691	0.019189	0.000238	0.0658750	31.80	0.10	2.05	1.80							
07/08/2024 06:00	14.77	0.006808	1.880986	0.0000686	0.019055	0.000232	0.0723333	31.40	0.10	2.27	1.70							
07/08/2024 07:00	14.76	0.006792	1.886558	0.0000685	0.019021	0.000235	0.0645000	31.20	0.10	2.04	1.80							
07/08/2024 08:00	14.77	0.005774	1.603395	0.0000648	0.017895	0.000248	0.0687500	28.10	0.20	2.27	1.70							
07/08/2024 09:00	14.78	0.005952	1.642113	0.0000644	0.017860	0.000246	0.0683056	27.30	0.20	2.27	1.70							
07/08/2024 10:00	14.81	0.005845	1.671553	0.0000645	0.017845	0.000247	0.0681556	27.90	0.20	2.28	1.70							
07/08/2024 11:00	14.81	0.005873	1.631406	0.0000643	0.017872	0.000246	0.0682778	29.00	0.10	2.28	1.70							
07/08/2024 12:00	15.00	0.006122	1.700593	-	-	0.000170	0.0472000	40.70	0.00	2.12	1.50							
07/08/2024 13:00	14.82	0.007059	1.940723	-	-	0.000228	0.0633750	33.90	0.00	2.06	1.80							
07/08/2024 14:00	14.82	0.007148	1.969581	-	-	0.000230	0.0631750	34.10	0.00	2.06	1.80							
07/08/2024 15:00	14.81	0.007205	2.001329	-	-	0.000239	0.0638250	34.30	0.00	2.05	1.80							
07/08/2024 16:00	14.82	0.007284	2.023352	-	-	0.000231	0.0641000	34.50	0.00	2.06	1.80							
07/08/2024 17:00	14.82	0.007387	2.051845	-	-	0.000238	0.0717500	34.70	0.00	2.29	1.70							
07/08/2024 18:00	14.80	0.007193	1.981844	-	-	0.000255	0.0708956	34.30	0.00	2.28	1.80							
07/08/2024 19:00	14.79	0.007208	2.002113	-	-	0.000239	0.0638500	34.00	0.00	2.05	1.80							
07/08/2024 20:00	14.78	0.007080	1.946680	-	-	0.000230	0.0640000	33.40	0.00	2.04	1.80							
07/08/2024 21:00	14.77	0.007145	1.994705	-	-	0.000231	0.0641500	33.50	0.00	2.04	1.90							
07/08/2024 22:00	14.77	0.007187	1.996302	-	-	0.000232	0.0642500	33.60	0.00	2.04	1.80							
07/08/2024 23:00	14.76	0.007108	1.974363	-	-	0.000257	0.0713819	33.20	0.00	2.26	1.60							
08/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
08/08/2024 08:00	14.77	0.006602	1.831980	0.0000638	0.017720	0.000219	0.0609250	32.70	0.20	2.04	1.70							
08/08/2024 09:00	14.78	0.006505	1.806325	0.0000642	0.017829	0.000221	0.0613000	32.10	0.20	2.04	1.70							
08/08/2024 10:00	14.81	0.006497	1.800319	0.0000647	0.017874	0.000222	0.0618000	32.90	0.20	2.04	1.70							
08/08/2024 11:00	14.83	0.007038	1.954901	0.0000636	0.017661	0.000219	0.0607250	35.10	0.10	2.06	1.80							
08/08/2024 12:00	15.00	0.006649	1.846898	-	-	0.000217	0.0475000	43.70	0.00	2.12	1.50							
08/08/2024 13:00	14.82	0.008079	2.244195	-	-	0.000227	0.0631500	38.60	0.00	2.06	1.80							
08/08/2024 14:00	14.78	0.008123	2.253289	-	-	0.000229	0.0638750	38.70	0.00	2.07	1.80							
08/08/2024 15:00	14.60	0.008143	2.261855	-	-	0.000228	0.0632750	38.90	0.00	2.05	1.80							
08/08/2024 16:00	14.82	0.008287	2.301871	-	-	0.000255	0.0707222	39.60	0.00	2.29	1.80							
08/08/2024 17:00	14.82	0.008446	2.337300	-	-	0.000257	0.0714167	39.60	0.00	2.29	1.80							
08/08/2024 18:00	14.79	0.008245	2.290363	-	-	0.000255	0.0707778	39.20	0.00	2.27	1.80							
08/08/2024 19:00	14.79	0.008239	2.281565	-	-	0.000255	0.0707222	39.20	0.00	2.27	1.90							
08/08/20240																		



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		NOx		SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust@7%O2	HRSG1_CO@7%O2			
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm		
11/08/2024 06:00		14.75	0.007550	2.097123	0.0005691	0.019196	0.000264	0.0733333	34.40	0.20		2.16		
11/08/2024 07:00		14.76	0.007644	2.128793	0.0005618	0.019108	0.000263	0.0730000	35.20	0.20		2.16	1.70	
11/08/2024 08:00		14.77	0.007464	2.073292	0.0005683	0.018978	0.000261	0.0725000	34.50	0.20		2.27	1.70	
11/08/2024 09:00		14.81	0.007547	2.096392	0.0005677	0.018818	0.000259	0.0718889	35.40	0.20		2.28	1.70	
11/08/2024 10:00		14.84	0.007546	2.096597	0.0005673	0.018694	0.000257	0.0714167	35.70	0.20		2.29	1.70	
11/08/2024 11:00		14.85	0.007800	2.166044	0.0005674	0.018723	0.000258	0.0715278	37.10	0.20		2.30	1.70	
11/08/2024 12:00		14.66	0.008547	2.374210	-	-	0.000260	0.0721111	40.20	0.10		2.30	1.80	
11/08/2024 13:00		14.81	0.008583	2.384286	-	-	0.000262	0.0728333	39.60	0.00		2.28	1.90	
11/08/2024 14:00		14.82	0.008615	2.412612	-	-	0.000262	0.0728811	40.10	0.00		2.29	1.90	
11/08/2024 15:00		14.83	0.008666	2.407093	-	-	0.000236	0.0654250	40.40	0.00		2.06	1.80	
11/08/2024 16:00		14.82	0.008735	2.426320	-	-	0.000236	0.0655750	40.30	0.00		2.06	1.90	
11/08/2024 17:00		14.81	0.008887	2.468703	-	-	0.000238	0.0659750	40.90	0.00		2.05	1.90	
11/08/2024 18:00		14.79	0.008989	2.496605	-	-	0.000265	0.0737222	40.90	0.00		2.27	1.90	
11/08/2024 19:00		14.73	0.007974	2.115078	-	-	0.000245	0.0680556	38.90	0.00		2.25	1.80	
11/08/2024 20:00		14.66	0.006318	1.755102	-	-	0.000220	0.0609722	34.00	0.10		2.23	1.90	
11/08/2024 21:00		14.64	0.006271	1.742042	-	-	0.000219	0.0609167	33.70	0.10		2.22	1.90	
11/08/2024 22:00		14.64	0.006166	1.712849	-	-	0.000197	0.0546250	33.30	0.10		2.00	1.90	
11/08/2024 23:00		14.87	0.008966	1.934963	-	-	0.000196	0.0544167	44.20	0.10		2.31	1.50	
12/08/2024 00:00		14.71	0.008513	1.531452	0.0000533	0.014797	0.000204	0.0565278	32.30	0.20		2.25	1.60	
12/08/2024 01:00		14.75	0.005505	1.529069	0.0000525	0.014571	0.000200	0.0556667	32.90	0.20		2.26	1.60	
12/08/2024 02:00		14.74	0.005316	1.476703	0.0000525	0.014571	0.000200	0.0556667	31.90	0.20		2.28	1.70	
12/08/2024 03:00		14.73	0.005150	1.435515	0.0000523	0.014528	0.000200	0.0555000	31.00	0.20		2.25	1.60	
12/08/2024 04:00		14.76	0.005242	1.456071	0.0000517	0.014388	0.000198	0.0548889	32.00	0.20		2.26	1.70	
12/08/2024 05:00		14.74	0.005263	1.461840	0.0000523	0.014528	0.000200	0.0555000	31.60	0.20		2.26	1.70	
12/08/2024 06:00		14.77	0.005330	1.480461	0.0000519	0.014404	0.000198	0.0550278	32.40	0.20		2.27	1.60	
12/08/2024 07:00		14.82	0.005367	1.490518	0.0000511	0.014328	0.000176	0.0488500	33.40	0.20		2.06	1.60	
12/08/2024 08:00		14.83	0.005306	1.473807	0.0000509	0.014142	0.000195	0.0540278	33.30	0.20		2.29	1.60	
12/08/2024 09:00		14.86	0.005386	1.499372	0.0000504	0.013997	0.000193	0.0534722	34.30	0.20		2.31	1.60	
12/08/2024 10:00		14.86	0.005278	1.465980	0.0000510	0.014164	0.000195	0.0541111	33.10	0.20		2.28	1.60	
12/08/2024 11:00		14.81	0.005560	1.541611	0.0000505	0.014019	0.000193	0.0535556	33.50	0.20		2.32	1.50	
12/08/2024 12:00		14.92	0.006108	1.696638	-	-	0.000194	0.0540000	38.80	0.10		2.32	1.60	
12/08/2024 13:00		14.92	0.006221	1.728095	-	-	0.000195	0.0540278	39.40	0.10		2.32	1.60	
12/08/2024 14:00		14.86	0.006199	1.722047	-	-	0.000199	0.0551389	38.30	0.10		2.30	1.70	
12/08/2024 15:00		14.91	0.006313	1.752728	-	-	0.000195	0.0541544	39.80	0.10		2.32	1.60	
12/08/2024 16:00		14.88	0.006307	1.751993	-	-	0.000177	0.0493000	39.20	0.10		2.08	1.70	
12/08/2024 17:00		15.05	0.007671	2.103818	-	-	0.000168	0.0465750	51.80	0.00		2.14	1.50	
12/08/2024 18:00		14.68	0.006395	1.776352	-	-	0.000203	0.0562750	33.30	0.10		2.01	1.80	
12/08/2024 19:00		14.67	0.006246	1.748172	-	-	0.000202	0.0556750	33.00	0.10		2.01	1.80	
12/08/2024 20:00		14.66	0.006248	1.735646	-	-	0.000202	0.0561000	32.90	0.10		2.00	1.80	
12/08/2024 21:00		14.66	0.006217	1.726991	-	-	0.000225	0.0624444	32.80	0.10		2.23	2.00	
12/08/2024 22:00		14.66	0.006228	1.730564	-	-	0.000225	0.0629556	32.80	0.10		2.23	1.80	
12/08/2024 23:00		14.91	0.006723	1.891560	-	-	0.000193	0.0534722	43.70	0.10		2.32	1.60	
13/08/2024 00:00		14.81	0.005596	1.554572	0.0000512	0.014229	0.000176	0.0489250	34.80	0.20		2.05	1.70	
13/08/2024 01:00		14.82	0.005352	1.481534	0.0000507	0.014070	0.000174	0.0483750	33.70	0.20		2.06	1.60	
13/08/2024 02:00		14.81	0.005284	1.467824	0.0000507	0.014084	0.000174	0.0484250	33.00	0.20		2.08	1.70	
13/08/2024 03:00		14.82	0.005381	1.497420	0.0000507	0.014077	0.000174	0.0484000	33.70	0.20		2.06	1.60	
13/08/2024 04:00		14.84	0.005452	1.514519	0.0000506	0.014048	0.000193	0.0536667	34.30	0.20		2.29	1.60	
13/08/2024 05:00		14.81	0.005314	1.476160	0.0000510	0.014164	0.000195	0.0541111	33.20	0.20		2.28	1.70	
13/08/2024 06:00		14.81	0.005278	1.465980	0.0000510	0.014164	0.000195	0.0541111	33.10	0.20		2.28	1.60	
13/08/2024 07:00		14.97	0.006468	1.779921	0.0000485	0.013459	0.000185	0.0514167	43.50	0.20		2.34	1.40	
13/08/2024 08:00		14.70	0.005324	1.478815	0.0000597	0.016593	0.000228	0.0833889	27.90	0.30		2.24	1.80	
13/08/2024 09:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
13/08/2024 10:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
13/08/2024 11:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
13/08/2024 12:00		15.07	0.007341	2.039234	-	-	0.000168	0.0466750	49.80	0.00		2.15	1.60	
13/08/2024 13:00		14.84	0.007976	2.115384	-	-	0.000224	0.0619750	39.10	0.00		2.06	2.00	
13/08/2024 14:00		14.83	0.008004	2.223427	-	-	0.000224	0.0622000	39.20	0.00		2.06	1.90	
13/08/2024 15:00		14.81	0.007813	2.197897	-	-	0.000223	0.0618500	39.90	0.00		2.05	1.90	
13/08/2024 16:00		14.79	0.007704	2.140014	-	-	0.000218	0.0605750	38.50	0.00		2.05	2.00	
13/08/2024 17:00		14.80	0.007785	2.162470	-	-	0.000222	0.0615750	38.40	0.00		2.05	2.00	
13/08/2024 18:00		14.76	0.007771	2.159161	-	-	0.000220	0.0611000	39.20	0.00		2.04	2.00	
13/08/2024 19:00		14.74	0.007715	2.143155	-	-	0.000220	0.0610250	37.90	0.00		2.03	2.10	
13/08/2024 20:00		14.76	0.007811	2.169672	-	-	0.000199	0.0552444	37.70	0.00		1.81	1.90	
13/08/2024 21:00		14.78	0.008073	2.242387	-	-	0.000204	0.0567556	38.30	0.00		1.82	2.00	
13/08/2024 22:00		14.78	0.008130	2.258164	-	-	0.000220	0.0613250	38.30	0.00		2.04	1.90	
13/08/2024 23:00		14.77	0.008035	2.218511	-	-	0.000225	0.0635500	38.20	0.00		2.04	1.80	
14/08/2024 00:00		14.77	0.006729	1.889287	-	-	0.000186	0.0545250	37.40	0.00		2.04	1.80	
14/08/2024 01:00		14.71	0.006087	1.690848	-	-	0.000208	0.0577750	31.50	0.00		2.02	1.80	
14/08/2024 02:00		14.68	0.005713	1.589189	-	-	0.000204	0.0568500	30.80	0.00		2.01	1.90	
14/08/2024 03:00		14.66	0.005586	1.548901	-	-	0.000200	0.0565750	29.40	0.00		2.00	1.80	
14/08/2024 04:00														



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Col		Emission Loading				Emission Concentration for Standardization Comparison					Remark
	O2	NOx	SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust@7%O2	HRSG1_CO@7%O2		
			Ton	(g/s)	Ton	(g/s)					ppm	
16/08/2024 09:00	14.78	0.005965	1.657035	-	-	0.000244	0.0677500	29.60	0.00	2.27	1.80	
16/08/2024 10:00	14.79	0.005978	1.660432	-	-	0.000244	0.0678889	29.70	0.00	2.27	1.80	
16/08/2024 11:00	14.81	0.006187	1.718508	-	-	0.000218	0.0645500	31.10	0.00	2.05	1.90	
16/08/2024 12:00	15.01	0.006177	1.719244	-	-	0.000188	0.0521111	41.30	0.00	2.36	1.60	
16/08/2024 13:00	14.83	0.007676	2.132211	-	-	0.000267	0.0712778	36.30	0.00	2.29	1.90	
16/08/2024 14:00	14.78	0.007789	2.166515	-	-	0.000230	0.0639750	36.80	0.00	2.04	2.00	
16/08/2024 15:00	14.79	0.007660	2.127900	-	-	0.000228	0.0632750	36.70	0.00	2.05	2.00	
16/08/2024 16:00	14.79	0.007625	2.118085	-	-	0.000229	0.0632250	36.20	0.00	2.05	2.00	
16/08/2024 17:00	14.81	0.007676	2.132243	-	-	0.000230	0.0637500	36.50	0.00	2.05	2.00	
16/08/2024 18:00	14.81	0.007769	2.158190	-	-	0.000231	0.0641250	36.70	0.00	2.05	1.90	
16/08/2024 19:00	14.80	0.007676	2.132243	-	-	0.000230	0.0637500	36.40	0.00	2.05	1.90	
16/08/2024 20:00	14.79	0.007682	2.133873	-	-	0.000231	0.0642000	36.30	0.00	2.05	2.00	
16/08/2024 21:00	14.79	0.007781	2.161509	-	-	0.000259	0.0718056	36.50	0.00	2.27	2.00	
16/08/2024 22:00	14.78	0.007679	2.133042	-	-	0.000231	0.0641750	36.00	0.00	2.04	2.10	
16/08/2024 23:00	14.77	0.007547	2.096507	-	-	0.000229	0.0634750	35.80	0.00	2.04	2.00	
17/08/2024 00:00	14.76	0.005242	1.734015	-	-	0.000199	0.0553000	34.10	0.00	2.04	1.80	
17/08/2024 01:00	14.72	0.005866	1.629389	-	-	0.000238	0.0661111	29.40	0.00	2.25	1.80	
17/08/2024 02:00	14.72	0.005848	1.624424	-	-	0.000215	0.0597780	29.20	0.00	2.02	1.80	
17/08/2024 03:00	14.71	0.005796	1.607209	-	-	0.000215	0.0596000	28.90	0.00	2.02	1.80	
17/08/2024 04:00	14.70	0.005745	1.595180	-	-	0.000211	0.0581250	29.10	0.00	2.02	1.80	
17/08/2024 05:00	14.70	0.005679	1.577546	-	-	0.000209	0.0580500	29.20	0.00	2.02	1.80	
17/08/2024 06:00	14.69	0.005616	1.559565	-	-	0.000210	0.0583000	28.60	0.00	2.01	1.80	
17/08/2024 07:00	14.80	0.005976	1.659951	-	-	0.000208	0.0594467	35.10	0.00	2.28	1.70	
17/08/2024 08:00	14.74	0.006029	1.674599	-	-	0.000247	0.0648722	29.30	0.00	2.26	1.80	
17/08/2024 09:00	14.75	0.006174	1.714946	-	-	0.000251	0.0695933	29.50	0.00	2.26	1.80	
17/08/2024 10:00	14.75	0.006085	1.693020	-	-	0.000222	0.0617250	29.50	0.00	2.03	1.80	
17/08/2024 11:00	14.76	0.006246	1.748977	-	-	0.000221	0.0614750	30.50	0.00	2.04	1.80	
17/08/2024 12:00	14.80	0.006461	1.784915	-	-	0.000170	0.0471750	42.80	0.00	2.11	1.60	
17/08/2024 13:00	14.80	0.007212	2.003388	-	-	0.000227	0.0636500	34.70	0.00	2.05	1.90	
17/08/2024 14:00	14.80	0.007446	2.068338	-	-	0.000228	0.0634250	35.50	0.00	2.05	1.90	
17/08/2024 15:00	14.80	0.007455	2.070784	-	-	0.000229	0.0635000	35.60	0.00	2.05	1.90	
17/08/2024 16:00	14.80	0.007414	2.059320	-	-	0.000227	0.0631500	35.60	0.00	2.05	1.90	
17/08/2024 17:00	14.79	0.007440	2.066708	-	-	0.000228	0.0633750	35.60	0.00	2.05	1.90	
17/08/2024 18:00	14.79	0.007464	2.072320	-	-	0.000229	0.0635750	35.50	0.00	2.05	1.90	
17/08/2024 19:00	14.78	0.007514	2.087340	-	-	0.000228	0.0636000	35.60	0.00	2.04	1.90	
17/08/2024 20:00	14.78	0.007474	2.076141	-	-	0.000231	0.0640750	35.20	0.00	2.04	1.90	
17/08/2024 21:00	14.77	0.007451	2.069460	-	-	0.000230	0.0638750	35.10	0.00	2.04	1.90	
17/08/2024 22:00	14.77	0.007445	2.068040	-	-	0.000230	0.0638250	35.00	0.00	2.04	1.90	
17/08/2024 23:00	14.78	0.007334	2.037358	-	-	0.000229	0.0637000	34.70	0.00	2.04	2.00	
18/08/2024 00:00	14.77	0.006246	1.734872	-	-	0.000202	0.0560750	33.60	0.00	2.04	1.80	
18/08/2024 01:00	14.70	0.005628	1.563247	-	-	0.000214	0.0593500	28.10	0.00	2.02	1.80	
18/08/2024 02:00	14.70	0.005471	1.519599	-	-	0.000189	0.0525333	27.60	0.00	1.79	1.80	
18/08/2024 03:00	14.67	0.005295	1.470903	-	-	0.000208	0.0567650	27.20	0.00	2.01	1.80	
18/08/2024 04:00	14.66	0.005186	1.440508	-	-	0.000205	0.0561500	26.90	0.00	2.02	1.80	
18/08/2024 05:00	14.66	0.005051	1.402943	-	-	0.000205	0.0568750	26.40	0.00	2.00	1.90	
18/08/2024 06:00	14.65	0.004931	1.369652	-	-	0.000202	0.0560000	26.00	0.00	2.00	1.90	
18/08/2024 07:00	14.63	0.004800	1.333258	-	-	0.000195	0.0545000	26.10	0.00	2.00	1.90	
18/08/2024 08:00	14.64	0.004845	1.345921	-	-	0.000193	0.0536500	26.60	0.00	2.00	1.80	
18/08/2024 09:00	14.67	0.004840	1.344567	-	-	0.000193	0.0536000	26.70	0.00	2.01	1.80	
18/08/2024 10:00	14.68	0.004911	1.364040	-	-	0.000191	0.0535000	27.60	0.00	2.01	1.80	
18/08/2024 11:00	14.72	0.005122	1.422833	-	-	0.000191	0.0531750	28.80	0.00	2.02	1.80	
18/08/2024 12:00	14.73	0.005476	1.521136	-	-	0.000188	0.0523500	31.30	0.00	2.03	1.90	
18/08/2024 13:00	14.72	0.005854	1.626190	-	-	0.000174	0.0483556	32.30	0.00	1.80	1.90	
18/08/2024 14:00	14.72	0.005903	1.639841	-	-	0.000173	0.0480889	32.60	0.00	1.80	1.90	
18/08/2024 15:00	14.70	0.005941	1.650168	-	-	0.000193	0.0537000	32.90	0.00	2.02	1.90	
18/08/2024 16:00	14.70	0.006007	1.688725	-	-	0.000214	0.0568278	33.30	0.00	2.24	1.90	
18/08/2024 17:00	14.68	0.006419	1.783088	-	-	0.000201	0.0557500	39.60	0.00	2.31	1.80	
18/08/2024 18:00	14.77	0.006948	1.929193	-	-	0.000246	0.0683899	34.00	0.00	2.27	1.90	
18/08/2024 19:00	14.75	0.006192	1.814315	-	-	0.000244	0.0678333	34.00	0.00	2.26	1.90	
18/08/2024 20:00	14.74	0.006180	1.805446	-	-	0.000228	0.0617500	33.60	0.00	2.03	2.00	
18/08/2024 21:00	14.75	0.006116	1.893431	-	-	0.000220	0.0612000	33.50	0.00	2.03	2.10	
18/08/2024 22:00	14.75	0.006182	1.911676	-	-	0.000221	0.0613750	33.60	0.00	2.03	2.00	
18/08/2024 23:00	14.76	0.006059	1.875941	-	-	0.000260	0.0721111	37.30	0.00	2.26	2.00	
19/08/2024 00:00	14.77	0.007181	2.161279	-	-	0.000265	0.0736389	35.30	0.00	2.27	1.70	
19/08/2024 01:00	14.75	0.007188	1.996756	-	-	0.000264	0.0731944	32.70	0.00	2.26	1.70	
19/08/2024 02:00	14.76	0.006930	1.924975	-	-	0.000263	0.0730833	31.80	0.00	2.26	1.70	
19/08/2024 03:00	14.79	0.006935	1.926439	-	-	0.000260	0.0704528	31.90	0.00	2.25	1.70	
19/08/2024 04:00	14.79	0.006789	1.889785	-	-	0.000263	0.0711667	31.30	0.00	2.27	1.70	
19/08/2024 05:00	14.79	0.006799	1.888738	-	-	0.000264	0.0732778	31.20	0.00	2.27	1.70	
19/08/2024 06:00	14.79	0.006784	1.897307	-	-	0.000264	0.0732222	31.10	0.00	2.27	1.60	
19/08/2024 07:00	14.76	0.006545	1.817267	-	-	0.000265	0.0732222	30.30	0.00	2.49	1.90	
19/08/2024 08:00	14.75	0.006436	1.809193	-	-	0.000267	0.0741889	27.00	0.00	2.48	1.90	
19/08/2024 09:00	14.77	0.006526	1.834588	-	-	0.000269	0.0747684	27.20	0.00	2.49	1.70	
19/08/2024 10:00	14.80	0.006552	1.842317	-	-	0.000268	0.0745250	27.60	0.00	2.51	1.60	
19/08/2024 11:00	14.82	0.006518	1.816156	-	-	0.000268	0.0732222	29.30	0.00	2.51	1.90	
19/08/2024 12:00	15.07	0.006484	1.801196	-	-	0.000205	0.0642850	44.20	0.00	2.04	1.80	
19/08/2024 13:00	14.84	0.006959	1.933129	-	-	0.000271	0.0753500	34.40	0.00	2.52	2.00	
19/08/2024 14:00	14.84	0.006994	1.942823	-	-	0.000274	0.0762361	34.20	0.00	2.52	1.90	
19/08/2024 15:00	14.85	0.007055										



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodicity: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark				
		O2		NOx		SOx		Dust		HRSG1_NOx@7%O2		HRSG1_SOx@7%O2			HRSG1_Dust (7%O2)		HRSG1_CO@7%O2	
		%	Ton	(g/s)	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm		mg/m3	ppm	ppm	
21/08/2024 12:00	15.04	0.006122	1.709464	-	-	0.000168	0.0467500	41.30	0.00	2.13	1.60							
21/08/2024 13:00	14.66	0.006181	1.911493	-	-	0.000254	0.070556	33.00	0.00	2.30	1.90							
21/08/2024 14:00	14.84	0.007281	2.022495	-	-	0.000258	0.071647	34.40	0.00	2.29	2.00							
21/08/2024 15:00	14.83	0.007123	1.978643	-	-	0.000229	0.0635250	34.00	0.00	2.06	2.00							
21/08/2024 16:00	14.84	0.007106	1.973871	-	-	0.000255	0.070819	33.90	0.00	2.29	2.10							
21/08/2024 17:00	14.83	0.007216	2.004338	-	-	0.000257	0.0715000	34.00	0.00	2.29	2.00							
21/08/2024 18:00	14.82	0.007039	1.955157	-	-	0.000255	0.070644	33.50	0.00	2.29	2.00							
21/08/2024 19:00	14.84	0.007219	2.005249	-	-	0.000230	0.0639500	34.40	0.00	2.06	2.00							
21/08/2024 20:00	14.85	0.007318	2.032822	-	-	0.000232	0.0644500	34.70	0.00	2.07	2.00							
21/08/2024 21:00	14.81	0.007066	1.962839	-	-	0.000230	0.0638750	33.50	0.00	2.05	2.20							
21/08/2024 22:00	14.81	0.007018	1.949416	-	-	0.000256	0.0709722	33.40	0.00	2.28	2.20							
21/08/2024 23:00	14.78	0.006823	1.895229	-	-	0.000254	0.0704444	32.50	0.00	2.27	2.10							
22/08/2024 00:00	14.75	0.006338	1.921244	-	-	0.000260	0.0713393	32.20	0.00	2.26	2.10							
22/08/2024 01:00	14.77	0.006564	1.923256	-	-	0.000264	0.0734167	30.00	0.00	2.27	2.00							
22/08/2024 02:00	14.77	0.006445	1.790155	-	-	0.000264	0.0731944	29.40	0.00	2.27	1.90							
22/08/2024 03:00	14.78	0.006286	1.746228	-	-	0.000263	0.0730933	28.90	0.00	2.27	1.80							
22/08/2024 04:00	14.78	0.006232	1.731151	-	-	0.000263	0.0730278	28.60	0.00	2.27	1.60							
22/08/2024 05:00	14.76	0.006303	1.750874	-	-	0.000237	0.0655500	28.70	0.00	2.04	1.90							
22/08/2024 06:00	14.79	0.006348	1.763323	-	-	0.000264	0.0732222	29.00	0.00	2.27	1.90							
22/08/2024 07:00	14.77	0.006583	1.828727	-	-	0.000210	0.0584467	30.10	0.00	1.81	1.80							
22/08/2024 08:00	14.77	0.006415	1.804446	-	-	0.000223	0.0630250	29.30	0.00	2.04	1.60							
22/08/2024 09:00	14.79	0.006123	1.422969	-	-	0.000225	0.0624500	24.80	0.00	2.05	1.70							
22/08/2024 10:00	14.80	0.005283	1.467511	-	-	0.000224	0.0621250	25.80	0.00	2.05	1.70							
22/08/2024 11:00	14.83	0.005508	1.528194	-	-	0.000221	0.0615000	27.20	0.00	2.07	1.60							
22/08/2024 12:00	15.04	0.006164	1.732255	-	-	0.000189	0.0470750	33.90	0.00	2.13	1.60							
22/08/2024 13:00	14.87	0.007157	1.918191	-	-	0.000233	0.0647000	33.90	0.00	2.27	1.90							
22/08/2024 14:00	14.85	0.006852	1.903450	-	-	0.000229	0.0637500	32.90	0.00	2.07	2.00							
22/08/2024 15:00	14.86	0.006706	1.862481	-	-	0.000226	0.0627500	32.80	0.00	2.07	2.00							
22/08/2024 16:00	14.86	0.006740	1.973229	-	-	0.000227	0.0640750	32.80	0.00	2.07	2.00							
22/08/2024 17:00	14.85	0.007046	1.957152	-	-	0.000232	0.0645750	33.30	0.00	2.07	1.90							
22/08/2024 18:00	14.82	0.006858	1.904945	-	-	0.000229	0.0637500	32.80	0.00	2.06	1.90							
22/08/2024 19:00	14.81	0.006849	1.907934	-	-	0.000230	0.0638250	32.60	0.00	2.05	1.90							
22/08/2024 20:00	14.81	0.007028	1.952331	-	-	0.000233	0.0645000	32.80	0.00	2.27	1.90							
22/08/2024 21:00	14.79	0.007022	1.950626	-	-	0.000233	0.0645000	32.80	0.00	2.05	2.00							
22/08/2024 22:00	14.79	0.006941	1.928112	-	-	0.000258	0.0716467	32.50	0.00	2.27	2.10							
22/08/2024 23:00	14.78	0.006711	1.844249	-	-	0.000229	0.0637000	31.80	0.00	2.04	1.90							
23/08/2024 00:00	14.77	0.007034	1.953580	-	-	0.000237	0.0650250	32.30	0.00	2.04	1.90							
23/08/2024 01:00	14.77	0.006512	1.891198	-	-	0.000238	0.0650500	29.60	0.00	2.04	1.60							
23/08/2024 02:00	14.77	0.006315	1.754193	-	-	0.000238	0.0660750	28.90	0.00	2.04	2.00							
23/08/2024 03:00	14.77	0.006194	1.720688	-	-	0.000237	0.0659500	28.30	0.00	2.04	2.00							
23/08/2024 04:00	14.78	0.006097	1.643097	-	-	0.000239	0.0664444	27.50	0.00	1.82	1.90							
23/08/2024 05:00	14.77	0.006102	1.695086	-	-	0.000237	0.0659250	28.00	0.00	2.04	1.90							
23/08/2024 06:00	14.78	0.006081	1.699301	-	-	0.000237	0.0657000	27.90	0.00	2.04	1.90							
23/08/2024 07:00	14.77	0.005988	1.646003	-	-	0.000235	0.0653250	27.60	0.00	2.04	1.80							
23/08/2024 08:00	14.77	0.006334	1.816234	-	-	0.000234	0.0642150	29.80	0.00	2.04	1.70							
23/08/2024 09:00	14.78	0.005139	1.427401	-	-	0.000223	0.0620750	24.90	0.00	2.04	1.70							
23/08/2024 10:00	14.77	0.005021	1.394675	-	-	0.000222	0.0617750	24.60	0.00	2.04	1.80							
23/08/2024 11:00	14.77	0.005455	1.515178	-	-	0.000223	0.0619500	26.50	0.00	2.04	1.60							
23/08/2024 12:00	14.95	0.006501	1.805164	-	-	0.000181	0.0502078	42.40	0.00	2.34	1.70							
23/08/2024 13:00	14.77	0.006601	1.833499	-	-	0.000202	0.0560819	31.40	0.00	1.81	2.00							
23/08/2024 14:00	14.76	0.006508	1.897833	-	-	0.000202	0.0561111	31.00	0.00	1.81	2.00							
23/08/2024 15:00	14.77	0.006493	1.803538	-	-	0.000227	0.0632750	31.20	0.00	2.04	2.00							
23/08/2024 16:00	14.78	0.006461	1.746328	-	-	0.000263	0.0701389	31.00	0.00	2.27	2.00							
23/08/2024 17:00	14.78	0.006504	1.806720	-	-	0.000254	0.0706111	30.90	0.00	2.27	2.10							
23/08/2024 18:00	14.77	0.006507	1.807431	-	-	0.000254	0.0706389	30.80	0.00	2.27	2.10							
23/08/2024 19:00	14.78	0.006556	1.821029	-	-	0.000253	0.0701389	31.40	0.00	2.27	2.00							
23/08/2024 20:00	14.80	0.006724	1.870546	-	-	0.000258	0.0715078	31.70	0.00	2.28	2.00							
23/08/2024 21:00	14.79	0.006744	1.873452	-	-	0.000258	0.0716389	31.70	0.00	2.27	2.00							
23/08/2024 22:00	14.79	0.006803	1.899857	-	-	0.000258	0.0717800	31.70	0.00	2.27	2.00							
23/08/2024 23:00	14.79	0.006676	1.845455	-	-	0.000255	0.0709167	31.60	0.00	2.27	2.00							
24/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
24/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down</										



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		CO2		NOx		SOx		Dust		HRSG1				
		%	Ton	(g/s)	(g/s)	(g/s)	(g/s)	ppm	ppm	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2	
26/08/2024 15:00	14.84	0.008483	2.356447	-	-	0.000227	0.0629750	41.00	0.00	2.06	2.10	2.00	2.00	
26/08/2024 16:00	14.84	0.008297	2.304703	-	-	0.000227	0.0630000	40.20	0.00	2.06	2.10	2.00	2.00	
26/08/2024 17:00	14.83	0.008509	2.353419	-	-	0.000230	0.0638750	40.50	0.00	2.06	2.10	2.00	2.00	
26/08/2024 18:00	14.79	0.008317	2.310191	-	-	0.000227	0.0631500	39.80	0.00	2.05	2.10	2.00	2.00	
26/08/2024 19:00	14.79	0.008427	2.340888	-	-	0.000229	0.0636250	40.10	0.00	2.05	2.10	2.00	2.00	
26/08/2024 20:00	14.80	0.008522	2.367119	-	-	0.000230	0.0638750	40.30	0.00	2.05	2.10	2.00	2.00	
26/08/2024 21:00	14.79	0.008513	2.364783	-	-	0.000231	0.0642750	40.10	0.00	2.05	2.10	2.00	2.00	
26/08/2024 22:00	14.79	0.008513	2.364783	-	-	0.000231	0.0642750	40.10	0.00	2.05	2.10	2.00	2.00	
26/08/2024 23:00	14.79	0.008440	2.344547	-	-	0.000229	0.0637250	40.10	0.00	2.05	2.10	2.00	2.00	
27/08/2024 00:00	14.80	0.007121	1.978094	-	-	0.000203	0.0563250	38.40	0.00	2.05	1.80	2.00	1.80	
27/08/2024 01:00	14.74	0.008935	1.928325	-	-	0.000218	0.0606250	34.30	0.00	2.03	2.00	2.00	2.00	
27/08/2024 02:00	14.69	0.006279	1.744269	-	-	0.000210	0.0589350	31.90	0.00	2.01	2.00	2.00	2.00	
27/08/2024 03:00	14.68	0.006037	1.676946	-	-	0.000229	0.0634467	31.30	0.00	2.23	2.00	2.00	2.00	
27/08/2024 04:00	14.70	0.006299	1.749693	-	-	0.000209	0.0581250	32.20	0.00	2.02	1.90	2.00	1.90	
27/08/2024 05:00	14.70	0.006265	1.737543	-	-	0.000209	0.0581250	32.20	0.00	2.02	2.00	2.00	2.00	
27/08/2024 06:00	14.68	0.006145	1.708318	-	-	0.000222	0.0647500	31.80	0.00	2.02	2.00	2.00	2.00	
27/08/2024 07:00	14.73	0.005954	1.653930	-	-	0.000191	0.0531000	33.70	0.00	2.03	2.00	2.00	2.00	
27/08/2024 08:00	14.75	0.006771	1.880816	-	-	0.000222	0.0616250	33.10	0.00	2.03	1.90	2.00	1.90	
27/08/2024 09:00	14.77	0.006801	1.893089	-	-	0.000221	0.0614750	33.30	0.00	2.04	1.90	2.00	1.90	
27/08/2024 10:00	14.81	0.006817	1.893588	-	-	0.000222	0.0616250	33.50	0.00	2.05	2.00	2.00	2.00	
27/08/2024 11:00	14.81	0.006797	1.888017	-	-	0.000220	0.0610250	33.90	0.00	2.05	2.00	2.00	2.00	
27/08/2024 12:00	15.03	0.006731	1.889726	-	-	0.000169	0.0470750	44.90	0.00	2.13	1.70	2.00	1.70	
27/08/2024 13:00	14.87	0.008440	2.344547	-	-	0.000229	0.0637250	40.60	0.00	2.07	2.00	2.00	2.00	
27/08/2024 14:00	14.85	0.008722	2.422885	-	-	0.000233	0.0647500	41.00	0.00	2.07	2.00	2.00	2.00	
27/08/2024 15:00	14.81	0.008510	2.363883	-	-	0.000231	0.0642500	40.20	0.00	2.05	2.00	2.00	2.00	
27/08/2024 16:00	14.85	0.008675	2.409769	-	-	0.000258	0.0715556	41.00	0.00	2.20	2.10	2.00	2.10	
27/08/2024 17:00	14.84	0.008817	2.443058	-	-	0.000262	0.0727222	41.10	0.00	2.29	2.00	2.00	2.00	
27/08/2024 18:00	14.81	0.008815	2.393019	-	-	0.000233	0.0646750	40.40	0.00	2.05	2.00	2.00	2.00	
27/08/2024 19:00	14.81	0.008845	2.373594	-	-	0.000231	0.0641500	40.40	0.00	2.05	2.00	2.00	2.00	
27/08/2024 20:00	14.80	0.008462	2.350432	-	-	0.000231	0.0642500	39.90	0.00	2.05	2.00	2.00	2.00	
27/08/2024 21:00	14.79	0.008459	2.349731	-	-	0.000233	0.0645000	39.50	0.00	2.05	2.00	2.00	2.00	
27/08/2024 22:00	14.80	0.008485	2.357006	-	-	0.000259	0.0720000	39.70	0.00	2.28	2.00	2.00	2.00	
27/08/2024 23:00	14.80	0.008433	2.342457	-	-	0.000232	0.0644000	39.60	0.00	2.05	1.90	2.00	1.90	
28/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
28/08/2024 08:00	14.78	0.006937	1.927014	-	-	0.000241	0.0669444	34.90	0.00	2.27	2.00	2.00	2.00	
28/08/2024 09:00	14.78	0.006740	1.872187	-	-	0.000244	0.0678944	33.30	0.00	2.27	1.80	2.00	1.80	
28/08/2024 10:00	14.81	0.006958	1.932700	-	-	0.000248	0.0681844	34.00	0.00	2.28	2.00	2.00	2.00	
28/08/2024 11:00	14.81	0.007396	2.054479	-	-	0.000248	0.0682500	36.60	0.00	2.28	2.00	2.00	2.00	
28/08/2024 12:00	14.93	0.007275	2.020702	-	-	0.000184	0.0539722	46.30	0.00	2.33	1.80	2.00	1.80	
28/08/2024 13:00	14.81	0.009206	2.527233	-	-	0.000259	0.0719167	43.20	0.00	2.28	2.00	2.00	2.00	
28/08/2024 14:00	14.83	0.009352	2.557824	-	-	0.000259	0.0719167	43.90	0.00	2.29	2.10	2.00	2.10	
28/08/2024 15:00	14.82	0.009137	2.537996	-	-	0.000256	0.0710000	43.30	0.00	2.29	2.00	2.00	2.00	
28/08/2024 16:00	14.82	0.009293	2.581299	-	-	0.000233	0.0645500	43.60	0.00	2.06	2.00	2.00	2.00	
28/08/2024 17:00	14.81	0.009464	2.634930	-	-	0.000236	0.0655000	43.90	0.00	2.05	2.00	2.00	2.00	
28/08/2024 18:00	14.80	0.009414	2.614892	-	-	0.000235	0.0651500	43.80	0.00	2.05	2.00	2.00	2.00	
28/08/2024 19:00	14.79	0.009365	2.601263	-	-	0.000235	0.0651500	43.40	0.00	2.05	2.00	2.00	2.00	
28/08/2024 20:00	14.78	0.009305	2.584665	-	-	0.000234	0.0650750	43.00	0.00	2.04	2.10	2.00	2.10	
28/08/2024 21:00	14.78	0.009338	2.593779	-	-	0.000236	0.0655000	43.00	0.00	2.04	2.00	2.00	2.00	
28/08/2024 22:00	14.78	0.009302	2.581902	-	-	0.000235	0.0654000	42.90	0.00	2.04	2.10	2.00	2.10	
28/08/2024 23:00	14.77	0.009095	2.526263	-	-	0.000233	0.0646250	42.50	0.00	2.04	2.00	2.00	2.00	
29/08/2024 00:00	14.77	0.007381	2.050214	-	-	0.000178	0.0495333	40.00	0.00	1.81	2.00	2.00	2.00	
29/08/2024 01:00	14.72	0.007122	1.928387	-	-	0.000213	0.0591500	36.00	0.00	2.02	2.00	2.00	2.00	
29/08/2024 02:00	14.72	0.006956	1.932188	-	-	0.000213	0.0591500	35.10	0.00	2.02	2.00	2.00	2.00	
29/08/2024 03:00	14.72	0.006769	1.877638	-	-	0.000210	0.0583250	34.60	0.00	2.02	2.00	2.00	2.00	
29/08/2024 04:00	14.71	0.006637	1.843721	-	-	0.000209	0.0580250	34.20	0.00	2.02	2.10	2.00	2.10	
29/08/2024 05:00	14.70	0.006569	1.825456	-	-	0.000230	0.0638056	34.00	0.00	2.24	2.10	2.00	2.10	
29/08/2024 06:00	14.69	0.006391	1.775406	-	-	0.000205	0.0570000	33.30	0.00	2.01	2.00	2.00	2.00	
29/08/2024 07:00	14.81	0.006485	1.801353	-	-	0.000188	0.0522250	37.90	0.00	2.05	1.90	2.00	1.90	
29/08/2024 08:00	14.78	0.007319	2.033187	-	-	0.000223	0.0619500	35.70	0.00	2.04	1.90	2.00	1.90	
29/08/2024 09:00	14.77	0.007538	2.092779	-	-	0.000228	0.0628000	35.30	0.00	2.04	1.90	2.00	1.90	
29/08/2024 10:00	14.75	0.007639	2.044644	-	-	0.000224	0.0622250	36.30	0.00	2.03	1.90	2.00	1.90	



Site Name: GULF NLL  
 Stack Name: HRSO STACK1  
 Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm
31/08/2024 18:00	14.85	0.008993	2.498173	-	-	0.000231	0.0642500	42.70	0.00	2.07	2.10	
31/08/2024 19:00	14.83	0.008789	2.439252	-	-	0.000204	0.0566142	41.85	0.00	1.83	2.10	
31/08/2024 20:00	14.81	0.008779	2.438585	-	-	0.000206	0.0572889	41.30	0.00	1.83	2.00	
31/08/2024 21:00	14.81	0.008954	2.459396	-	-	0.000208	0.0577778	41.40	0.00	1.83	2.00	
31/08/2024 22:00	14.80	0.008847	2.457504	-	-	0.000208	0.0577333	41.20	0.00	1.82	2.00	
31/08/2024 23:00	14.80	0.008610	2.391655	-	-	0.000206	0.0571333	40.60	0.00	1.82	2.10	
Minimum	14.83	0.00	1.33	0.00	0.00	0.00	0.04	24.60	0.00	1.79	1.40	
Maximum	15.09	0.01	2.79	0.00	0.02	0.00	0.12	51.80	0.30	3.68	2.40	
Avg	14.79	0.01	1.98	0.00	0.00	0.00	0.06	35.32	0.03	2.12	1.86	
SUM		5.08		0.01		0.16						
			STD = 5.92		STD = 0.82		STD = 1.58	STD =50	STD = 6	STD =30	STD = 690	



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		CO2		NOx		SOx		Dust		HRSO2 NOx@7%O2	HRSO2 SOx@7%O2	HRSO2 DM@7%O2	HRSO2 CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm					
01/08/2024 00:00	13.24	0.009258	2.671798	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.20		
01/08/2024 01:00	13.24	0.009560	2.691747	-	-	0.000000	-	25.40	0.00	0.00	0.00	0.10		
01/08/2024 02:00	13.25	0.009569	2.657932	-	-	0.000000	-	25.30	0.00	0.00	0.00	0.10		
01/08/2024 03:00	13.24	0.009553	2.653633	-	-	0.000000	-	25.20	0.00	0.00	0.00	0.10		
01/08/2024 04:00	13.24	0.009149	2.641288	-	-	0.000000	-	24.60	0.00	0.00	0.00	0.20		
01/08/2024 05:00	13.25	0.009287	2.673653	-	-	0.000000	-	24.90	0.00	0.00	0.00	0.20		
01/08/2024 06:00	13.24	0.009391	2.608579	-	-	0.000000	-	25.10	0.00	0.00	0.00	0.20		
01/08/2024 07:00	13.36	0.010375	2.881841	-	-	0.000000	-	30.80	0.00	0.00	0.00	0.10		
01/08/2024 08:00	13.32	0.011099	3.082920	-	-	0.000000	-	27.90	0.00	0.00	0.00	0.10		
01/08/2024 09:00	13.31	0.010747	2.855140	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.10		
01/08/2024 10:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 11:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 12:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 13:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 14:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 15:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 16:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
01/08/2024 17:00	13.58	0.010412	2.932220	-	-	0.000000	-	26.60	0.00	0.00	0.00	0.20		
01/08/2024 18:00	13.54	0.010438	2.955298	-	-	0.000000	-	27.10	0.00	0.00	0.00	0.20		
01/08/2024 19:00	13.52	0.010650	2.958299	-	-	0.000000	-	27.20	0.00	0.00	0.00	0.20		
01/08/2024 20:00	13.52	0.010982	3.050659	-	-	0.000000	-	27.60	0.00	0.00	0.00	0.20		
01/08/2024 21:00	13.51	0.011079	3.077600	-	-	0.000000	-	27.90	0.00	0.00	0.00	0.20		
01/08/2024 22:00	13.52	0.011238	3.121755	-	-	0.000000	-	28.00	0.00	0.00	0.00	0.20		
01/08/2024 23:00	13.51	0.010919	3.033950	-	-	0.000000	-	27.70	0.00	0.00	0.00	0.20		
02/08/2024 00:00	13.52	0.009417	2.615885	-	-	0.000000	-	27.10	0.00	0.00	0.00	0.20		
02/08/2024 01:00	13.49	0.009326	2.596675	-	-	0.000000	-	25.30	0.00	0.00	0.00	0.20		
02/08/2024 02:00	13.50	0.009405	2.615445	-	-	0.000000	-	25.40	0.00	0.00	0.00	0.20		
02/08/2024 03:00	13.47	0.009927	2.674983	-	-	0.000000	-	24.50	0.00	0.00	0.00	0.50		
02/08/2024 04:00	13.48	0.009162	2.406173	-	-	0.000000	-	23.90	0.00	0.00	0.00	0.50		
02/08/2024 05:00	13.48	0.008991	2.461958	-	-	0.000000	-	24.30	0.00	0.00	0.00	0.50		
02/08/2024 06:00	13.51	0.008182	2.446730	-	-	0.000000	-	24.60	0.00	0.00	0.00	0.20		
02/08/2024 07:00	13.63	0.009768	2.713550	-	-	0.000000	-	30.30	0.00	0.00	0.00	0.20		
02/08/2024 08:00	13.58	0.010344	2.873427	-	-	0.000000	-	27.00	0.00	0.00	0.00	0.20		
02/08/2024 09:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 10:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 11:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 12:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 13:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 14:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 15:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 16:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	
02/08/2024 17:00	13.70	0.010433	2.938073	-	-	0.000000	-	27.00	0.00	0.00	0.00	0.20		
02/08/2024 18:00	13.70	0.010528	2.951348	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.20		
02/08/2024 19:00	13.70	0.010585	2.932053	-	-	0.000000	-	27.40	0.00	0.00	0.00	0.30		
02/08/2024 20:00	13.69	0.010684	2.967648	-	-	0.000000	-	27.60	0.00	0.00	0.00	0.20		
02/08/2024 21:00	13.67	0.010574	2.937248	-	-	0.000000	-	27.40	0.00	0.00	0.00	0.30		
02/08/2024 22:00	13.66	0.010705	2.978727	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.30		
02/08/2024 23:00	13.65	0.010630	2.952701	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.30		
03/08/2024 00:00	13.66	0.009369	2.602559	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.20		
03/08/2024 01:00	13.61	0.009325	2.590361	-	-	0.000000	-	25.20	0.00	0.00	0.00	0.30		
03/08/2024 02:00	13.59	0.009431	2.619716	-	-	0.000000	-	25.30	0.00	0.00	0.00	0.40		
03/08/2024 03:00	13.58	0.008731	2.425207	-	-	0.000000	-	24.20	0.00	0.00	0.00	0.20		
03/08/2024 04:00	13.59	0.008726	2.423879	-	-	0.000000	-	24.10	0.00	0.00	0.00	0.20		
03/08/2024 05:00	13.58	0.008773	2.436944	-	-	0.000000	-	24.20	0.00	0.00	0.00	0.30		
03/08/2024 06:00	13.58	0.008673	2.409277	-	-	0.000000	-	24.10	0.00	0.00	0.00	0.30		
03/08/2024 07:00	13.69	0.009383	2.606311	-	-	0.000000	-	29.50	0.00	0.00	0.00	0.20		
03/08/2024 08:00	13.62	0.009544	2.651067	-	-	0.000000	-	25.30	0.00	0.00	0.00	0.20		
03/08/2024 09:00	13.65	0.009943	2.761955	-	-	0.000000	-	26.10	0.00	0.00	0.00	0.20		
03/08/2024 10:00	13.66	0.009606	2.691448	-	-	0.000000	-	25.90	0.00	0.00	0.00	0.20		
03/08/2024 11:00	13.68	0.009600	2.688725	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.20		
03/08/2024 12:00	13.69	0.010392	2.886722	-	-	0.000000	-	36.60	0.00	0.00	0.00	0.10		
03/08/2024 13:00	13.72	0.009992	2.774659	-	-	0.000000	-	26.40	0.00	0.00	0.00	0.20		
03/08/2024 14:00	13.73	0.010066	2.786081	-	-	0.000000	-	26.40	0.00	0.00	0.00	0.20		
03/08/2024 15:00	13.72	0.010248	2.846575	-	-	0.000000	0.0767472	26.40	0.00	0.00	1.36	0.20		
03/08/2024 16:00	13.72	0.010150	2.819504	-	-	0.000000	-	26.50	0.00	0.00	0.00	0.20		
03/08/2024 17:00	13.71	0.010145	2.818072	-	-	0.000000	-	26.40	0.00	0.00	0.00	0.20		
03/08/2024 18:00	13.69	0.010076	2.799254	-	-	0.000000	-	26.30	0.00	0.00	0.00	0.20		
03/08/2024 19:00	13.67	0.009492	2.775921	-	-	0.000000	-	26.00	0.00	0.00	0.00	0.20		
03/08/2024 20:00	13.67	0.010184	2.828775	-	-	0.000000	-	26.20	0.00	0.00	0.00	0.20		
03/08/2024 21:00	13.66	0.010078	2.799509	-	-	0.000000	-	26.00	0.00	0.00	0.00	0.20		
03/08/2024 22:00	13.65	0.010134	2.815611	-	-	0.000000	-	25.80	0.00	0.00	0.00	0.20		
03/08/2024 23:00	13.65	0.010121	2.825232	-	-	0.000000	-	25.60	0.00	0.00	0.00	0.20		
04/08/2024 00:00	13.66	0.009115	2.532059	-	-	0.000000	-	27.30	0.00	0.00	0.00	0.20		
04/08/2024 01:00	13.58	0.008169	2.459156	-	-	0.000000	-	23.20	0.00	0.00	0.00	0.20		
04/08/2024 02:00	13.56	0.008095	2.448488	-	-	0.000000	-	22.90	0.00	0.00	0.00	0.20		
04/08/2024 03:00	13.58	0.007695	2.137636	-	-	0.000000	-	22.20	0.00	0.00	0.00	0.20		
04/08/2024 04:00	13.58	0.007584	2.106635	-	-	0.000000	-	22.00	0.					



[illegible]



Site Name: GULF NLL  
Stack Name: HRS5 STACK3  
Periodically: 01/08/2024 00:00:31/08/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark	
		NOx		SOx		Dust		HRS62 NOx@7%O2		HRS62 SOx@7%O2		HRS62 Dust@7%O2			
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm	ppm		ppm
11/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 09:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 10:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 11:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 13:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 14:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 15:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 16:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 17:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 18:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 19:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
11/08/2024 20:00	12.44	0.008787	2.440754	-	-	0.000000	-	22.60	0.00	0.00	0.00	0.00	0.00	0.00	0.20
11/08/2024 21:00	12.42	0.008702	2.417263	-	-	0.000000	-	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20
11/08/2024 22:00	12.42	0.008559	2.377503	-	-	0.000000	-	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
11/08/2024 23:00	12.66	0.010945	3.040233	-	-	0.000000	-	32.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 00:00	12.50	0.008716	2.420973	-	-	0.000000	-	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 01:00	12.54	0.010190	2.830552	-	-	0.000000	-	28.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 02:00	12.53	0.010124	2.812135	-	-	0.000000	-	28.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20
12/08/2024 03:00	12.52	0.009710	2.697350	-	-	0.000000	-	26.90	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 04:00	12.55	0.010487	2.804709	-	-	0.000000	-	29.30	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 05:00	12.53	0.009853	2.767421	-	-	0.000000	-	27.50	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 06:00	12.56	0.010348	2.874420	-	-	0.000000	-	28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 07:00	12.61	0.010759	2.939487	-	-	0.000000	-	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 08:00	12.62	0.010776	2.939486	-	-	0.000000	-	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 09:00	12.67	0.011151	3.097521	-	-	0.000000	-	32.30	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 10:00	12.65	0.010870	3.019397	-	-	0.000000	-	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 11:00	12.69	0.011256	3.126746	-	-	0.000000	-	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 12:00	12.70	0.011212	3.114579	-	-	0.000000	-	33.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 13:00	12.71	0.011129	3.091464	-	-	0.000000	-	32.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 14:00	12.65	0.010559	2.860922	-	-	0.000000	-	30.70	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 15:00	12.70	0.011183	3.104469	-	-	0.000000	0.0059778	32.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 16:00	12.67	0.010998	3.050409	-	-	0.000000	-	31.80	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 17:00	12.83	0.013007	3.613158	-	-	0.000000	-	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/08/2024 18:00	12.45	0.009472	2.631020	-	-	0.000000	-	23.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 19:00	12.44	0.009119	2.632979	-	-	0.000000	-	23.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 20:00	12.44	0.009064	2.617792	-	-	0.000000	-	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 21:00	12.44	0.009517	2.604727	-	-	0.000000	-	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.20
12/08/2024 22:00	12.44	0.009061	2.616897	-	-	0.000000	-	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.10
12/08/2024 23:00	12.72	0.011561	3.211330	-	-	0.000000	-	34.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 00:00	12.61	0.010639	2.895215	-	-	0.000000	-	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 01:00	12.62	0.010779	2.934269	-	-	0.000000	-	31.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 02:00	12.61	0.010855	3.015305	-	-	0.000000	-	31.30	0.00	0.00	0.00	0.00	0.00	0.00	0.20
13/08/2024 03:00	12.62	0.011160	3.097359	-	-	0.000000	-	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
13/08/2024 04:00	12.64	0.011176	3.104464	-	-	0.000000	-	32.40	0.00	0.00	0.00	0.00	0.00	0.00	0.20
13/08/2024 05:00	12.62	0.010756	2.897690	-	-	0.000000	-	31.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
13/08/2024 06:00	12.61	0.010646	2.957117	-	-	0.000000	-	30.60	0.00	0.00	0.00	0.00	0.00	0.00	0.30
13/08/2024 07:00	12.78	0.012382	3.434885	-	-	0.000000	-	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 08:00	12.49	0.009788	2.719923	-	-	0.000000	-	29.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 09:00	12.51	0.010769	2.931505	-	-	0.000000	-	25.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 10:00	12.55	0.010927	3.035247	-	-	0.000000	-	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
13/08/2024 11:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 12:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 13:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 14:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 15:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 16:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 17:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
13/08/2024 18:00	14.90	0.011589	3.219148	-	-	0.000000	-	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 19:00	14.89	0.011484	3.150086	-	-	0.000000	-	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 20:00	14.89	0.011535	3.204217	-	-	0.000000	-	37.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 21:00	14.90	0.012111	3.364031	-	-	0.000000	-	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 22:00	14.90	0.012128	3.369173	-	-	0.000000	-	38.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13/08/2024 23:00	14.90	0.012083	3.356317	-	-	0.000000	-	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14/08/2024 00:00	14.93	0.010899	3.027538	-	-	0.000000	-	35.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14/08/2024 01:00	14.88	0.010381	2.893545	-	-	0.000000	-	35.20	0.0						



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark
		NOx		SOx		Dust		HRSO2_NOx@7%O2	HRSO2_SO@7%O2	HRSO2_Dust@7%O2				
		Ton	(g/s)	Ton	(g/s)	Ton	(g/s)			ppm	mg/m3	ppm		
16/08/2024 09:00	15	19	0.010546	3.045552	-	-	0.000000	-	36.70	0.00	0.00	0.00		
16/08/2024 10:00	15	21	0.011038	3.056249	-	-	0.000000	-	37.00	0.00	0.00	0.00		
16/08/2024 11:00	15	23	0.010990	3.052818	-	-	0.000000	-	37.40	0.00	0.00	0.00		
16/08/2024 12:00	15	42	0.010940	3.039015	-	-	0.000000	-	49.10	0.00	0.00	0.00		
16/08/2024 13:00	15	24	0.011852	3.292214	-	-	0.000000	-	39.10	0.00	0.00	0.00		
16/08/2024 14:00	15	19	0.011884	3.301213	-	-	0.000000	-	38.80	0.00	0.00	0.10		
16/08/2024 15:00	15	19	0.011532	3.203214	-	-	0.000234	0.0650667	38.20	0.00	1.46	0.10		
16/08/2024 16:00	15	18	0.011475	3.187520	-	-	0.000000	-	37.70	0.00	0.00	0.00		
16/08/2024 17:00	15	20	0.011576	3.215422	-	-	0.000000	-	37.20	0.00	0.00	0.00		
16/08/2024 18:00	15	20	0.011685	3.245080	-	-	0.000000	-	36.40	0.00	0.00	0.00		
16/08/2024 19:00	15	17	0.011458	3.182660	-	-	0.000000	-	37.70	0.00	0.00	0.00		
16/08/2024 20:00	15	16	0.011522	3.200481	-	-	0.000000	-	37.60	0.00	0.00	0.00		
16/08/2024 21:00	15	17	0.011765	3.268033	-	-	0.000000	-	38.00	0.00	0.00	0.00		
16/08/2024 22:00	15	16	0.011530	3.202911	-	-	0.000000	-	37.60	0.00	0.00	0.10		
16/08/2024 23:00	15	14	0.011334	3.148444	-	-	0.000000	-	37.10	0.00	0.00	0.00		
17/08/2024 00:00	15	16	0.010256	2.848760	-	-	0.000000	-	38.10	0.00	0.00	0.00		
17/08/2024 01:00	15	12	0.010178	2.827206	-	-	0.000000	-	34.60	0.00	0.00	0.00		
17/08/2024 02:00	15	15	0.010461	2.905891	-	-	0.000000	-	35.80	0.00	0.00	0.00		
17/08/2024 03:00	15	14	0.010338	2.871661	-	-	0.000000	-	35.40	0.00	0.00	0.00		
17/08/2024 04:00	15	13	0.010191	2.832094	-	-	0.000000	-	35.40	0.00	0.00	0.00		
17/08/2024 05:00	15	13	0.009939	2.746021	-	-	0.000000	-	35.00	0.00	0.00	0.00		
17/08/2024 06:00	15	12	0.009908	2.752098	-	-	0.000000	-	34.60	0.00	0.00	0.00		
17/08/2024 07:00	15	22	0.010663	2.861831	-	-	0.000000	-	42.40	0.00	0.00	0.00		
17/08/2024 08:00	15	15	0.011091	3.080738	-	-	0.000000	-	36.00	0.00	0.00	0.10		
17/08/2024 10:00	15	16	0.010935	3.099624	-	-	0.000000	-	36.00	0.00	0.00	0.00		
17/08/2024 11:00	15	18	0.010634	2.953862	-	-	0.000000	-	35.70	0.00	0.00	0.00		
17/08/2024 12:00	15	40	0.011010	3.099279	-	-	0.000000	-	49.20	0.00	0.00	0.00		
17/08/2024 13:00	15	22	0.010790	2.877860	-	-	0.000000	-	36.10	0.00	0.00	0.00		
17/08/2024 14:00	15	23	0.011085	3.079220	-	-	0.000000	-	36.90	0.00	0.00	0.00		
17/08/2024 15:00	15	23	0.011029	3.063531	-	-	0.000274	0.0759819	36.80	0.00	1.72	0.00		
17/08/2024 16:00	15	22	0.010905	3.023091	-	-	0.000000	-	36.60	0.00	0.00	0.00		
17/08/2024 17:00	15	22	0.011071	3.075274	-	-	0.000000	-	36.40	0.00	0.00	0.00		
17/08/2024 18:00	15	21	0.011048	3.069018	-	-	0.000000	-	36.70	0.00	0.00	0.00		
17/08/2024 19:00	15	19	0.011048	3.069018	-	-	0.000000	-	36.50	0.00	0.00	0.00		
17/08/2024 20:00	15	18	0.011130	3.091762	-	-	0.000000	-	36.40	0.00	0.00	0.00		
17/08/2024 21:00	15	17	0.011099	3.083129	-	-	0.000000	-	36.30	0.00	0.00	0.00		
17/08/2024 22:00	15	17	0.011017	3.060239	-	-	0.000000	-	36.10	0.00	0.00	0.00		
18/08/2024 00:00	15	19	0.010184	2.829932	-	-	0.000000	-	37.60	0.00	0.00	0.00		
18/08/2024 01:00	15	14	0.009874	2.742660	-	-	0.000000	-	34.10	0.00	0.00	0.00		
18/08/2024 02:00	15	13	0.009702	2.695040	-	-	0.000000	-	33.50	0.00	0.00	0.10		
18/08/2024 03:00	15	12	0.009293	2.581435	-	-	0.000000	-	32.70	0.00	0.00	0.00		
18/08/2024 04:00	15	11	0.009191	2.497384	-	-	0.000000	-	31.60	0.00	0.00	0.00		
18/08/2024 05:00	15	12	0.009188	2.483252	-	-	0.000000	-	31.60	0.00	0.00	0.00		
18/08/2024 06:00	15	10	0.008527	2.368713	-	-	0.000000	-	30.60	0.00	0.00	0.10		
18/08/2024 07:00	15	08	0.007882	2.189458	-	-	0.000000	-	29.20	0.00	0.00	0.00		
18/08/2024 08:00	15	10	0.007673	2.103499	-	-	0.000000	-	29.20	0.00	0.00	0.10		
18/08/2024 09:00	15	15	0.007705	2.140395	-	-	0.000000	-	28.90	0.00	0.00	0.00		
18/08/2024 10:00	15	17	0.007515	2.087455	-	-	0.000000	-	28.70	0.00	0.00	0.00		
18/08/2024 11:00	15	22	0.007651	2.125344	-	-	0.000000	-	29.40	0.00	0.00	0.00		
18/08/2024 12:00	15	24	0.006846	1.801648	-	-	0.000000	-	26.90	0.00	0.00	0.00		
18/08/2024 13:00	15	23	0.007628	2.118927	-	-	0.000000	-	29.20	0.00	0.00	0.00		
18/08/2024 14:00	15	22	0.007644	2.123463	-	-	0.000000	-	29.40	0.00	0.00	0.00		
18/08/2024 15:00	15	20	0.007466	2.073818	-	-	0.000235	0.0653917	28.70	0.00	1.71	0.00		
18/08/2024 16:00	15	20	0.007385	2.051421	-	-	0.000000	-	28.50	0.00	0.00	0.00		
18/08/2024 17:00	15	34	0.009524	2.645653	-	-	0.000000	-	40.20	0.00	0.00	0.00		
18/08/2024 18:00	15	25	0.010364	2.878815	-	-	0.000000	-	35.50	0.00	0.00	0.00		
18/08/2024 19:00	15	22	0.010156	2.821171	-	-	0.000000	-	35.10	0.00	0.00	0.00		
18/08/2024 20:00	15	20	0.010104	2.806638	-	-	0.000000	-	34.60	0.00	0.00	0.00		
18/08/2024 21:00	15	19	0.010112	2.808964	-	-	0.000000	-	34.50	0.00	0.00	0.00		
18/08/2024 22:00	15	20	0.010147	2.818511	-	-	0.000000	-	34.70	0.00	0.00	0.00		
19/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/08/2024 08:00	15	33	0.011330	3.147357	-	-	0.000000	-	40.20	0.00	0.00	0.00		
19/08/2024 09:00	15	27	0.011610	3.251512	-	-	0.000000	-	39.40	0.00	0.00	0.00		
19/08/2024 10:00	15	28	0.011722	3.266123	-	-	0.000000	-	40.00	0.00	0.00	0.00		
19/08/2024 11:00	15	31	0.011840	3.281928	-	-	0.000000	-	41.10	0.00	0.00	0.00		
19/08/2024 12:00	15	52	0.012126	3.368442	-	-	0.000000	-	55.50	0.00	0.00	0.00		
19/08/2024 13:00	15	33	0.011993	3.333956	-	-	0.000000	-	41.70	0.00	0.00	0.00		
19/08/2024 14:00	15	33	0.012137	3.371457	-	-	0.000000	-	41.60	0.00	0.00	0.00		
19/08/2024 15:00	15	32	0.012302	3.417133	-	-	0.000271	0.0752306	42.00	0.00	1.74	0.00		
19/08/2024 16:00	15	31	0.012378	3.438330	-	-	0.000000	-	42.00	0.00	0.00	0.00		
19/08/2024 17:00	15	28	0.012438	3.455111	-	-	0.000000	-	41.80	0.00	0.00	0.00		
19/08/2024 18:00	15	27	0.012304	3.417713	-	-	0.000000	-	41.30	0.00	0.00	0.00		
19/08/2024 19:00	15	25	0.012171	3.380765	-	-	0.000000	-	40.70	0.00	0.00	0.00		



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison								Remark
		NOx		SOx		Dust		HRSO2		HRSO2		HRSO2		HRSO2		
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
21/08/2024 12:00	15 51	0.011884	3.301213	-	-	0.000000	-	54.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 13:00	15 34	0.012489	3.469242	-	-	0.000000	-	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 14:00	15 30	0.013087	3.535395	-	-	0.000000	-	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 15:00	15 28	0.012739	3.538997	-	-	0.000274	0.0761056	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 16:00	15 27	0.012724	3.534422	-	-	0.000000	-	42.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 17:00	15 27	0.012766	3.546045	-	-	0.000000	-	42.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 18:00	15 26	0.012557	3.487394	-	-	0.000000	-	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 19:00	15 27	0.012975	3.604300	-	-	0.000000	-	43.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 20:00	15 27	0.013084	3.634481	-	-	0.000000	-	43.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 21:00	15 23	0.012632	3.508428	-	-	0.000000	-	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 22:00	15 22	0.012714	3.531746	-	-	0.000000	-	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21/08/2024 23:00	15 20	0.012181	3.383681	-	-	0.000000	-	40.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
22/08/2024 08:00	15 34	0.012095	3.350059	-	-	0.000000	-	42.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 09:00	15 28	0.011830	3.286162	-	-	0.000000	-	39.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 10:00	15 28	0.012041	3.350319	-	-	0.000000	-	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 11:00	15 30	0.012077	3.354739	-	-	0.000000	-	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 12:00	15 50	0.011816	3.287678	-	-	0.000000	-	53.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 13:00	15 35	0.012055	3.291711	-	-	0.000000	-	43.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 14:00	15 33	0.012456	3.516651	-	-	0.000000	-	40.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 15:00	15 34	0.012346	3.429499	-	-	0.000272	0.0755028	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 16:00	15 33	0.012400	3.444513	-	-	0.000000	-	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 17:00	15 33	0.012892	3.681164	-	-	0.000000	-	42.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 18:00	15 29	0.012483	3.457478	-	-	0.000000	-	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 19:00	15 28	0.012412	3.447836	-	-	0.000000	-	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 20:00	15 27	0.012589	3.497003	-	-	0.000000	-	41.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 21:00	15 25	0.012605	3.501393	-	-	0.000000	-	41.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 22:00	15 24	0.012554	3.487245	-	-	0.000000	-	41.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22/08/2024 23:00	15 22	0.012277	3.410261	-	-	0.000000	-	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
23/08/2024 08:00	15 32	0.011870	3.297179	-	-	0.000000	-	41.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 09:00	15 30	0.011841	3.289311	-	-	0.000000	-	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 10:00	15 26	0.011692	3.247678	-	-	0.000000	-	39.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 11:00	15 23	0.011880	3.300074	-	-	0.000000	-	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 12:00	15 42	0.012456	3.459162	-	-	0.000000	-	55.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 13:00	15 24	0.012150	3.374948	-	-	0.000000	-	41.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 14:00	15 23	0.012133	3.370354	-	-	0.000000	-	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 15:00	15 25	0.012051	3.347464	-	-	0.000272	0.0754833	40.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 16:00	15 26	0.012018	3.338319	-	-	0.000000	-	40.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 17:00	15 25	0.012095	3.359746	-	-	0.000000	-	40.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 18:00	15 23	0.011935	3.315397	-	-	0.000000	-	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 19:00	15 24	0.012149	3.374692	-	-	0.000000	-	40.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 20:00	15 25	0.012672	3.519977	-	-	0.000000	-	41.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 21:00	15 23	0.012672	3.519977	-	-	0.000000	-	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 22:00	15 22	0.012618	3.524419	-	-	0.000000	-	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23/08/2024 23:00	15 23	0.012450	3.458372	-	-	0.000000	-	41.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24/08/2024 00:00	15 25	0.013350	3.708284	-	-	0.000000	-	42.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24/08/2024 01:00	15 26	0.012426	3.729481	-	-	0.000000	-	42.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24/08/2024 02:00	15 25	0.013540	3.761025	-	-	0.000000	-	42.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24/08/2024 03:00	15 22	0.013210	3.689370	-	-	0.000000	-	41.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24/08/2024 04:00	15 23</															



Site Name: GULF NLL  
Stack Name: HRSQ STACK2  
Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	Operation Co.		Emission Loading						Emission Concentration for Standardization Comparison								Remark
	O2		NOx		SOx		Dust		HRSQ2 NOx@7%O2		HRSQ2 SOx@7%O2		HRSQ2 Dust@7%O2		HRSQ2 CO@7%O2		
	%	ton	(g/s)	ton	(g/s)	ton	(g/s)	ton	(g/s)	ppm	ton	(g/s)	ppm	ton	(g/s)	ppm	
26/08/2024 15:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
26/08/2024 16:00	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate	CEM calibrate
26/08/2024 17:00	15.68	0.010600	2.944481	0.0002063	0.007296	0.000000	-	39.60	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 18:00	15.66	0.010304	2.872350	0.0002041	0.006415	0.000000	-	38.90	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 19:00	15.64	0.010467	2.907664	0.0002028	0.006418	0.000000	-	39.10	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 20:00	15.64	0.010584	2.933997	0.0002030	0.006804	0.000000	-	39.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 21:00	15.83	0.010588	3.016172	-	-	0.000000	-	40.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 22:00	15.82	0.010778	2.993998	-	-	0.000000	-	39.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26/08/2024 23:00	15.82	0.010631	2.993021	-	-	0.000000	-	39.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 00:00	15.84	0.009934	2.753373	0.0000921	0.025694	0.000000	-	41.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 01:00	15.79	0.009764	2.712108	0.0000992	0.027643	0.000000	-	37.40	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 02:00	15.74	0.009937	2.482495	0.0000956	0.026569	0.000000	-	34.90	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 03:00	15.72	0.008466	2.357138	0.0001815	0.025252	0.000000	-	33.60	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 04:00	15.74	0.009006	2.501591	0.0000966	0.026569	0.000000	-	35.30	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 05:00	15.75	0.009077	2.621377	0.0000957	0.026576	0.000000	-	35.50	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 06:00	15.72	0.009713	2.420221	0.0001894	0.025613	0.000000	-	34.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 07:00	15.77	0.009411	2.324495	0.0001548	0.025509	0.000000	-	36.10	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 08:00	15.77	0.009392	2.477750	0.0002024	0.026220	0.000000	-	36.80	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 09:00	15.81	0.010134	2.814900	0.0003043	0.048526	0.000000	-	37.80	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 10:00	15.86	0.010223	2.842468	0.0005085	0.141241	0.000000	-	38.70	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 11:00	15.89	0.010660	2.794500	0.0007049	0.199203	0.000000	-	38.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 12:00	16.09	0.010427	2.896338	0.0003154	0.087602	0.000000	-	53.30	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 13:00	15.94	0.010792	2.897860	0.0007199	0.199976	0.000000	-	40.80	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 14:00	15.92	0.011104	3.084551	0.0005219	0.144895	0.000000	-	41.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 15:00	15.87	0.010709	2.734855	0.0001939	0.114872	0.000000	0.0764519	39.90	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 16:00	15.91	0.010993	3.053732	0.0003121	0.088708	0.000000	-	41.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 17:00	15.90	0.010982	3.050508	0.0004186	0.116279	0.000000	-	40.70	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 18:00	15.87	0.010743	2.984147	0.0003092	0.089500	0.000000	-	39.90	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 19:00	15.84	0.010672	2.848319	0.0002082	0.057292	0.000000	-	39.60	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 20:00	15.82	0.010422	2.490459	0.0001033	0.028704	0.000000	-	39.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 21:00	15.82	0.010597	2.971385	0.0001041	0.028910	0.000000	-	39.10	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 22:00	15.83	0.010737	2.882595	0.0001045	0.029019	0.000000	-	39.20	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27/08/2024 23:00	15.83	0.010682	2.868992	0.0001230	0.057791	0.000000	-	39.40	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 00:00	15.83	0.012048	3.346680	0.0001075	0.028848	0.000000	-	42.80	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 01:00	15.84	0.012321	3.422615	-	-	0.000000	-	43.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 02:00	15.80	0.012079	3.355199	-	-	0.000000	-	42.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 03:00	15.78	0.011839	3.288718	-	-	0.000000	-	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 04:00	15.78	0.011860	3.294315	-	-	0.000000	-	41.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 05:00	15.78	0.011880	3.299912	-	-	0.000000	-	41.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 06:00	15.79	0.011860	3.294315	-	-	0.000000	-	41.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 07:00	15.82	0.011865	3.295728	-	-	0.000000	-	42.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 08:00	15.81	0.010311	2.844245	0.0004070	0.113051	0.000000	-	38.50	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 09:00	15.83	0.009833	2.731403	0.0007042	0.195599	0.000000	-	37.20	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 10:00	15.87	0.010039	2.789717	0.0009176	0.254818	0.000000	-	37.80	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 11:00	15.87	0.009535	2.752323	0.0008050	0.223402	0.000000	-	37.80	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 12:00	16.01	0.009462	2.767118	0.0003383	0.110629	0.000000	-	49.50	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 13:00	15.86	0.010246	2.846136	0.0006153	0.170928	0.000000	-	38.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 14:00	15.88	0.010494	2.914815	0.0006169	0.171365	0.000000	-	39.20	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 15:00	15.90	0.010175	2.893523	0.0007130	0.190402	0.000000	0.0764519	38.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 16:00	15.89	0.010346	2.873329	0.0007197	0.199925	0.000000	-	38.90	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 17:00	15.88	0.010545	2.929890	0.0006243	0.173415	0.000000	-	39.20	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 18:00	15.87	0.010569	2.935764	0.0005178	0.143922	0.000000	-	39.10	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 19:00	15.86	0.010415	2.892952	0.0004140	0.114599	0.000000	-	38.60	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 20:00	15.84	0.010345	2.873741	0.0003107	0.086293	0.000000	-	38.30	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 21:00	15.84	0.010582	2.938406	0.0003132	0.087013	0.000000	-	38.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 22:00	15.84	0.010550	2.930564	0.0002082	0.057834	0.000000	-	38.60	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28/08/2024 23:00	15.83	0.010447	2.901825	0.0002082	0.057267	0.000000	-	38.60	0.70	0.00							



Site Name: GULF NLL  
 Stack Name: HRSO STACK2  
 Periodically: 01/08/2024 00:00-31/08/2024 23:59

Date & Time	O2	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSG2_NOx@7%O2	HRSG2_SOx@7%O2	HRSG2_Dust@7%O2	HRSG2_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm
31/08/2024 18:00	15.95	0.010298	2.862665	0.0012370	0.343602	0.000000	-	38.90	3.30	0.00	0.20	
31/08/2024 19:00	15.92	0.009823	2.756472	0.0011250	0.312499	0.000000	-	37.70	3.00	0.00	0.20	
31/08/2024 20:00	15.91	0.009920	2.755682	0.0010300	0.306117	0.000000	-	37.30	2.70	0.00	0.20	
31/08/2024 21:00	15.89	0.009991	2.778271	0.0009336	0.269337	0.000000	-	37.20	2.50	0.00	0.20	
31/08/2024 22:00	15.88	0.009899	2.748694	0.0009320	0.258879	0.000000	-	36.90	2.40	0.00	0.20	
31/08/2024 23:00	15.86	0.009801	2.727588	0.0008202	0.227846	0.000000	-	36.70	2.30	0.00	0.30	
Minimum	12.42	0.00	0.17	0.00	0.00	0.00	0.00	12.90	0.00	0.00	0.00	
Maximum	18.29	0.01	4.05	0.01	1.44	0.00	0.08	55.90	4.20	1.99	210.60	
Avg	14.53	0.01	3.01	0.00	0.04	0.00	0.00	34.60	0.38	0.06	0.47	
SUM		6.42		0.08	0.01							
			STD = 5.9%		STD = 0.82		STD = 1.58	STD = 40	STD = 6	STD = 30	STD = 690	



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:30-10/2024 23:59

Date & Time	Operation Code		Emission Loading						Emission Concentration for Standardization Comparison				Remark
	O2		NOx		SOx		Dust		HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2	
	%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm		
01/09/2024 00:00	14.78	0.006180	1.911169	-	-	0.000198	0.0502760	37.90	0.00	2.0	2.00		
01/09/2024 01:00	14.71	0.006422	1.781971	-	-	0.000206	0.0502760	33.50	0.00	2.0	2.00		
01/09/2024 02:00	14.72	0.006357	1.765810	-	-	0.000205	0.0502760	33.20	0.00	2.0	2.00		
01/09/2024 03:00	14.70	0.006076	1.697275	-	-	0.000199	0.0503000	32.80	0.00	2.0	2.00		
01/09/2024 04:00	14.69	0.005981	1.633664	-	-	0.000197	0.0504500	32.10	0.00	2.0	2.00		
01/09/2024 05:00	14.70	0.005989	1.653332	-	-	0.000199	0.0504750	32.40	0.00	2.0	2.00		
01/09/2024 06:00	14.69	0.006016	1.671062	-	-	0.000193	0.0504500	33.40	0.00	2.0	2.00		
01/09/2024 07:00	14.71	0.005786	1.607209	-	-	0.000186	0.0516000	33.50	0.00	2.0	1.90		
01/09/2024 08:00	14.75	0.005748	1.602318	-	-	0.000184	0.0511000	33.80	0.00	2.0	1.80		
01/09/2024 09:00	14.75	0.005828	1.618780	-	-	0.000186	0.0514250	33.80	0.00	2.0	1.90		
01/09/2024 10:00	14.74	0.005788	1.607915	-	-	0.000188	0.0523250	33.10	0.00	2.0	1.90		
01/09/2024 11:00	14.79	0.006100	1.634323	-	-	0.000186	0.0516250	35.70	0.00	2.0	2.00		
01/09/2024 12:00	14.81	0.006495	1.804254	-	-	0.000185	0.0513750	38.40	0.00	2.1	2.00		
01/09/2024 13:00	14.80	0.006721	1.889664	-	-	0.000187	0.0520000	39.30	0.00	2.1	2.00		
01/09/2024 14:00	14.81	0.006783	1.884171	-	-	0.000188	0.0521000	39.40	0.00	2.1	2.00		
01/09/2024 15:00	14.79	0.006847	1.902044	-	-	0.000190	0.0529000	39.10	0.00	2.0	2.10		
01/09/2024 16:00	14.77	0.006776	1.882117	-	-	0.000192	0.0532750	38.30	0.00	2.0	2.10		
01/09/2024 17:00	14.68	0.006955	1.934634	-	-	0.000193	0.0508500	42.10	0.00	2.1	2.00		
01/09/2024 18:00	14.66	0.006500	2.361124	-	-	0.000227	0.0631000	41.20	0.00	2.1	2.10		
01/09/2024 19:00	14.63	0.008271	2.297639	-	-	0.000225	0.0624500	40.40	0.00	2.1	2.10		
01/09/2024 20:00	14.80	0.008148	2.263344	-	-	0.000199	0.0551111	39.80	0.00	1.8	2.10		
01/09/2024 21:00	14.78	0.008093	2.248115	-	-	0.000200	0.0555778	39.10	0.00	1.8	2.10		
01/09/2024 22:00	14.77	0.007983	2.217532	-	-	0.000209	0.0554667	38.50	0.00	1.8	2.00		
01/09/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
02/09/2024 08:00	14.77	0.007634	2.130583	-	-	0.000219	0.0602350	38.50	0.00	2.0	1.90		
02/09/2024 09:00	14.77	0.007251	2.042009	-	-	0.000247	0.0618484	35.80	0.00	2.3	2.00		
02/09/2024 10:00	14.80	0.007402	2.056046	-	-	0.000249	0.0619167	36.00	0.00	2.3	1.90		
02/09/2024 11:00	14.82	0.007808	2.168799	-	-	0.000249	0.0619078	38.20	0.00	2.3	2.00		
02/09/2024 12:00	14.92	0.007287	2.015722	-	-	0.000195	0.0541111	46.00	0.00	2.3	1.80		
02/09/2024 13:00	14.81	0.009367	2.401816	-	-	0.000259	0.0730278	43.90	0.00	2.3	2.00		
02/09/2024 14:00	14.77	0.009269	2.574735	-	-	0.000259	0.0720278	43.10	0.00	2.3	2.10		
02/09/2024 15:00	14.76	0.009170	2.547356	-	-	0.000232	0.0644760	42.90	0.00	2.0	2.10		
02/09/2024 16:00	14.76	0.009199	2.555258	-	-	0.000233	0.0644760	42.80	0.00	2.0	2.10		
02/09/2024 17:00	14.76	0.009329	2.591281	-	-	0.000234	0.0645000	43.20	0.00	2.0	2.10		
02/09/2024 18:00	14.76	0.009230	2.563813	-	-	0.000258	0.0717222	43.00	0.00	2.3	2.10		
02/09/2024 19:00	14.77	0.009149	2.541429	-	-	0.000267	0.0714722	42.90	0.00	2.3	2.10		
02/09/2024 20:00	14.76	0.009170	2.547356	-	-	0.000284	0.0718028	42.80	0.00	2.5	2.10		
02/09/2024 21:00	14.76	0.009129	2.538843	-	-	0.000284	0.0718118	42.50	0.00	2.5	2.20		
02/09/2024 22:00	14.76	0.009109	2.530172	-	-	0.000285	0.0718083	42.40	0.00	2.5	2.10		
02/09/2024 23:00	14.76	0.009070	2.519422	-	-	0.000284	0.0717722	42.30	0.00	2.5	2.20		
03/09/2024 00:00	14.77	0.009341	2.594873	-	-	0.000282	0.0711250	42.50	0.00	2.5	2.10		
03/09/2024 01:00	14.79	0.009808	2.446670	-	-	0.000291	0.0808184	40.20	0.00	2.5	2.10		
03/09/2024 02:00	14.79	0.008722	2.422682	-	-	0.000281	0.0809417	39.70	0.00	2.5	2.10		
03/09/2024 03:00	14.78	0.008639	2.399745	-	-	0.000280	0.0805361	39.50	0.00	2.5	2.00		
03/09/2024 04:00	14.78	0.008626	2.398108	-	-	0.000280	0.0805361	39.60	0.00	2.5	2.10		
03/09/2024 05:00	14.78	0.008662	2.408110	-	-	0.000291	0.0808000	39.50	0.00	2.5	2.10		
03/09/2024 06:00	14.78	0.008619	2.394289	-	-	0.000280	0.0804528	39.50	0.00	2.5	2.00		
03/09/2024 07:00	14.76	0.008938	2.482735	-	-	0.000292	0.0810944	40.60	0.00	2.5	2.00		
03/09/2024 08:00	14.75	0.007905	2.198856	-	-	0.000277	0.0768778	37.80	0.00	2.5	2.00		
03/09/2024 09:00	14.74	0.007846	2.086245	-	-	0.000272	0.0756556	36.50	0.00	2.5	2.00		
03/09/2024 10:00	14.76	0.007629	2.119104	-	-	0.000250	0.0695278	36.60	0.00	2.3	2.00		
03/09/2024 11:00	14.76	0.007812	2.170043	-	-	0.000246	0.0695250	38.30	0.00	2.3	2.00		
03/09/2024 12:00	14.96	0.007512	2.088791	-	-	0.000193	0.0558233	48.60	0.00	2.3	1.80		
03/09/2024 13:00	14.81	0.009044	2.512633	-	-	0.000256	0.0710278	42.80	0.00	2.3	2.00		
03/09/2024 14:00	14.82	0.009128	2.535503	-	-	0.000257	0.0713056	43.20	0.00	2.3	2.10		
03/09/2024 15:00	14.83	0.009035	2.509922	-	-	0.000254	0.0709333	43.20	0.00	2.3	2.10		
03/09/2024 16:00	14.82	0.009248	2.589778	-	-	0.000233	0.0648760	43.40	0.00	2.1	2.00		
03/09/2024 17:00	14.82	0.009406	2.613275	-	-	0.000234	0.0651000	44.00	0.00	2.1	2.10		
03/09/2024 18:00	14.80	0.009385	2.608855	-	-	0.000234	0.0649500	43.80	0.00	2.1	2.10		
03/09/2024 19:00	14.79	0.009248	2.568778	-	-	0.000233	0.0646750	43.20	0.00	2.0	2.10		
03/09/2024 20:00	14.79	0.009217	2.560186	-	-	0.000233	0.0646000	42.90	0.00	2.0	2.10		
03/09/2024 21:00	14.80	0.009200	2.555493	-	-	0.000234	0.0650250	42.80	0.00	2.1	2.00		
03/09/2024 22:00	14.80	0.009270	2.575012	-	-	0.000235	0.0651750						



Site Name: GULF NLL  
Stack Name: HRSG STACK1  
Periodically: 01/10/2024 00:00:30/10/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison					Remark
		O2	NOx		SOx		Dust	HRSG1_NOx@7%O2	HRSG1_SOx@7%O2	HRSG1_Dust (7%O2)	HRSG1_CO@7%O2		
			%	Ton	(g/s)	Ton						(g/s)	
06/09/2024 03:00		14.82	0.008888	2.468185	-	-	0.002239	0.0663500	40.60	0.00	2.1	2.00	
06/09/2024 04:00		14.80	0.008995	2.498487	-	-	0.002239	0.0664000	41.00	0.00	2.1	2.00	
06/09/2024 05:00		14.80	0.009334	2.481800	-	-	0.002239	0.0663250	40.70	0.00	2.1	2.00	
06/09/2024 06:00		14.80	0.009334	2.481800	-	-	0.002239	0.0663250	40.90	0.00	2.1	2.00	
06/09/2024 07:00		14.81	0.008864	2.462354	-	-	0.002239	0.0661750	40.60	0.00	2.1	2.10	
06/09/2024 08:00		14.82	0.007729	2.147043	-	-	0.002228	0.0634000	37.10	0.00	2.1	1.90	
06/09/2024 09:00		14.84	0.007514	2.087240	-	-	0.002226	0.0628000	36.40	0.00	2.1	1.90	
06/09/2024 10:00		14.86	0.007604	2.112175	-	-	0.002227	0.0631500	36.70	0.00	2.1	2.00	
06/09/2024 11:00		14.89	0.007552	2.099003	-	-	0.002226	0.0628000	36.90	0.00	2.1	2.00	
06/09/2024 12:00		15.05	0.007227	2.007397	-	-	0.002172	0.0477750	47.80	0.00	2.1	1.80	
06/09/2024 13:00		14.92	0.009072	2.520400	-	-	0.002232	0.0644750	43.40	0.00	2.1	2.00	
06/09/2024 14:00		14.90	0.009077	2.521377	-	-	0.002232	0.0644750	43.30	0.00	2.1	2.10	
06/09/2024 15:00		14.88	0.009070	2.519558	-	-	0.002233	0.0648000	43.00	0.00	2.1	2.10	
06/09/2024 16:00		14.86	0.008862	2.461705	-	-	0.002232	0.0643500	42.10	0.00	2.1	2.10	
06/09/2024 17:00		14.85	0.008866	2.467459	-	-	0.002233	0.0646750	42.30	0.00	2.1	2.10	
06/09/2024 18:00		14.83	0.008779	2.438585	-	-	0.002233	0.0644000	41.40	0.00	2.1	2.10	
06/09/2024 19:00		14.81	0.008617	2.393516	-	-	0.002232	0.0643250	40.60	0.00	2.1	2.10	
06/09/2024 20:00		14.80	0.008494	2.412120	-	-	0.002233	0.0648250	40.60	0.00	2.1	2.10	
06/09/2024 21:00		14.81	0.008335	2.454274	-	-	0.002235	0.0652250	41.10	0.00	2.1	2.10	
06/09/2024 22:00		14.81	0.008432	2.453333	-	-	0.002235	0.0652000	41.10	0.00	2.1	2.10	
06/09/2024 23:00		14.79	0.008434	2.342709	-	-	0.002229	0.0636750	40.00	0.00	2.0	2.00	
07/09/2024 00:00		14.79	0.008434	2.453181	-	-	0.002237	0.0659500	40.60	0.00	2.0	2.00	
07/09/2024 01:00		14.79	0.008475	2.492748	-	-	0.002239	0.0662500	39.50	0.00	2.0	1.90	
07/09/2024 02:00		14.80	0.008675	2.469748	-	-	0.002239	0.0662500	39.70	0.00	2.0	1.90	
07/09/2024 03:00		14.82	0.008379	2.327531	-	-	0.002212	0.0591111	38.50	0.00	1.8	1.90	
07/09/2024 04:00		14.80	0.008529	2.169994	-	-	0.002239	0.0662750	39.00	0.00	2.1	1.90	
07/09/2024 05:00		14.80	0.008426	2.149062	-	-	0.002239	0.0662500	38.50	0.00	2.1	1.90	
07/09/2024 06:00		14.80	0.008336	2.315422	-	-	0.002239	0.0663250	38.10	0.00	2.1	1.90	
07/09/2024 07:00		14.79	0.008222	2.284003	-	-	0.002236	0.0654250	38.00	0.00	2.0	2.00	
07/09/2024 08:00		14.76	0.008489	1.908138	-	-	0.002218	0.0604500	34.10	0.00	2.0	1.90	
07/09/2024 09:00		14.79	0.008475	1.872322	-	-	0.002225	0.0625000	33.50	0.00	2.0	1.90	
07/09/2024 10:00		14.83	0.008484	1.912083	-	-	0.002225	0.0625000	34.50	0.00	2.0	1.90	
07/09/2024 11:00		14.86	0.007384	2.053857	-	-	0.002220	0.0610250	37.10	0.00	2.1	2.00	
07/09/2024 12:00		15.06	0.007325	2.034724	-	-	0.002170	0.0472500	49.00	0.00	2.1	1.70	
07/09/2024 13:00		14.85	0.008335	2.354274	-	-	0.002225	0.0652500	43.30	0.00	2.1	2.10	
07/09/2024 14:00		14.84	0.008331	2.358474	-	-	0.002225	0.0652450	39.70	0.00	2.1	2.10	
07/09/2024 15:00		14.77	0.008016	2.226542	-	-	0.002223	0.0619250	39.00	0.00	2.0	2.10	
07/09/2024 16:00		14.78	0.007969	2.213597	-	-	0.002223	0.0619250	38.80	0.00	2.0	2.00	
07/09/2024 17:00		14.80	0.008163	2.267615	-	-	0.002201	0.0587333	39.30	0.00	1.8	2.00	
07/09/2024 18:00		14.78	0.008137	2.250282	-	-	0.002225	0.0625000	39.30	0.00	2.0	2.10	
07/09/2024 19:00		14.77	0.008014	2.226108	-	-	0.002224	0.0622750	38.80	0.00	2.0	2.10	
07/09/2024 20:00		14.79	0.008111	2.253149	-	-	0.002224	0.0623000	39.30	0.00	2.0	2.00	
07/09/2024 21:00		14.78	0.008092	2.244812	-	-	0.002225	0.0623750	39.40	0.00	2.0	2.00	
07/09/2024 22:00		14.80	0.008231	2.258412	-	-	0.002225	0.0625000	39.90	0.00	2.1	2.10	
07/09/2024 23:00		14.79	0.008099	2.249704	-	-	0.002223	0.0618500	39.60	0.00	2.0	2.10	
08/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 09:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 10:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 11:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 13:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 14:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 15:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 16:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 17:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
08/09/2024 18:00	14.79	0.009072	2.519188	-	-	0.002194	0.0538444	45.50	0.00	1.8	2.20	1.8	2.20
08/09/2024 19:00	14.74	0.008470	2.352679	-	-	0.002197	0.0546667	41.30	0.00	1.8	2.10	1.8	2.10
08/09/2024 20:00	14.75	0.008463	2.350766	-	-	0.002221	0.0614500	41.30	0.00	2.0	2.20	2.0	2.20
08/09/2024 21:00	14.76	0.008545	2.373719	-	-	0.002248	0.0639344	41.50	0.00	2.0	2.30	2.0	2.30
08/09/2024 22:00	14.76	0.008551	2.375151	-	-	0.002247	0.0616611	41.70	0.00	2.0	2.30	2.0	2.30
08/09/2024 23:00	14.78	0.007772	2.159343	-	-	0.002189	0.0524250	45.00	0.00	2.0	2.10	2.0	2.10
09/09/2024 00:00	14.71	0.007144	1.984527	-	-	0.002176	0.0487778	36.90	0.00	1.8	2.20	1.8	2.20
09/09/2024 01:00	14.69	0.006878	1.910846	-	-	0.002174	0.0475411	36.10	0.00	1.8	2.20	1.8	2.20
09/09/2024 02:00	14.69	0.006550	1.819461	-	-	0.002190	0.0521500	37.00	0.00	2.0	2.10	2.0	2.10
09/09/2024 03:00	14.70	0.006501	1.805733	-	-	0.002186	0.0517250	37.50	0.00	2.0	2.10	2.0	2.10
09/09/2024 04:00	14.69	0.006500	1.833227	-	-	0.002189	0.0522000	37.50	0.00	2.0	2.10	2.0	2.10
09/09/2024 05:00	14.70	0.006459	1.826417	-	-	0.002197	0.0521500	36.20	0.00	2.0	2.10	2.0	2.10



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading				Emission Concentration for Standardization Comparison								Remark
		O2	NOx	SOx	Dust	HRSG1_NOx@7%O2		HRSG1_SOx@7%O2		HRSG1_Dust@7%O2				
						g/s	ppm	g/s	ppm	g/m3	ppm			
11/09/2024 06:00	14.70	0.005991	1.664304	-	-	0.005223	0.0518511	32.10	0.00	0.00	2.2	2.10		
11/09/2024 07:00	14.84	0.006339	1.760925	-	-	0.002024	0.0567222	38.00	0.00	0.00	2.3	1.90		
11/09/2024 08:00	14.80	0.007075	1.865363	-	-	0.002444	0.0678333	35.00	0.00	0.00	2.3	2.00		
11/09/2024 09:00	14.82	0.007009	1.847004	-	-	0.002444	0.0674389	35.00	0.00	0.00	2.3	1.90		
11/09/2024 10:00	14.82	0.007026	1.851802	-	-	0.002444	0.0678096	35.10	0.00	0.00	2.3	2.00		
11/09/2024 11:00	14.81	0.007227	2.007569	-	-	0.002452	0.0671111	36.20	0.00	0.00	2.3	2.00		
11/09/2024 12:00	15.04	0.007268	2.016035	-	-	0.000189	0.0525278	48.30	0.00	0.00	2.4	1.80		
11/09/2024 13:00	14.82	0.008197	2.415893	-	-	0.000230	0.0633500	41.50	0.00	0.00	2.1	2.10		
11/09/2024 14:00	14.81	0.009707	2.419221	-	-	0.000230	0.0633250	41.30	0.00	0.00	2.1	2.20		
11/09/2024 15:00	14.82	0.008629	2.386985	-	-	0.000253	0.0703889	41.50	0.00	0.00	2.1	2.20		
11/09/2024 16:00	14.81	0.008561	2.377363	-	-	0.000229	0.0635500	40.90	0.00	0.00	2.1	2.30		
11/09/2024 17:00	14.82	0.008735	2.426288	-	-	0.000231	0.0641250	41.50	0.00	0.00	2.1	2.10		
11/09/2024 18:00	14.81	0.008612	2.392189	-	-	0.000229	0.0635750	41.10	0.00	0.00	2.1	2.10		
11/09/2024 19:00	14.80	0.008547	2.374221	-	-	0.000228	0.0634500	40.70	0.00	0.00	2.1	2.30		
11/09/2024 20:00	14.80	0.008615	2.393129	-	-	0.000204	0.0565333	41.00	0.00	0.00	1.8	2.20		
11/09/2024 21:00	14.80	0.008628	2.395737	-	-	0.000230	0.0640250	40.70	0.00	0.00	2.1	2.30		
11/09/2024 22:00	14.81	0.008598	2.389263	-	-	0.000230	0.0633250	40.90	0.00	0.00	2.1	2.20		
11/09/2024 23:00	14.80	0.008486	2.357236	-	-	0.000228	0.0633500	40.60	0.00	0.00	2.1	2.30		
12/09/2024 00:00	14.78	0.006752	1.875553	-	-	0.000193	0.0537250	38.10	0.00	0.00	2.0	2.10		
12/09/2024 01:00	14.71	0.006599	1.831352	-	-	0.000213	0.0592600	33.20	0.00	0.00	1.8	2.10		
12/09/2024 02:00	14.71	0.006375	1.730781	-	-	0.000184	0.0512232	33.00	0.00	0.00	1.8	2.10		
12/09/2024 03:00	14.70	0.006261	1.739283	-	-	0.000181	0.0503111	33.00	0.00	0.00	1.8	2.10		
12/09/2024 04:00	14.71	0.006328	1.757721	-	-	0.000183	0.0508444	33.10	0.00	0.00	1.8	2.10		
12/09/2024 05:00	14.72	0.006467	1.739430	-	-	0.000185	0.0512667	33.40	0.00	0.00	1.8	2.10		
12/09/2024 06:00	14.71	0.006246	1.734972	-	-	0.000179	0.0494444	33.30	0.00	0.00	1.8	2.10		
12/09/2024 07:00	14.66	0.006653	1.848006	-	-	0.000164	0.0454222	40.00	0.00	0.00	1.8	2.00		
12/09/2024 08:00	14.78	0.006988	1.816009	-	-	0.000193	0.0536000	34.60	0.00	0.00	1.8	2.10		
12/09/2024 09:00	14.80	0.006937	1.821054	-	-	0.000193	0.0535596	34.40	0.00	0.00	1.8	2.10		
12/09/2024 10:00	14.84	0.006989	1.843395	-	-	0.000184	0.0494222	35.20	0.00	0.00	1.8	2.00		
12/09/2024 11:00	14.82	0.007539	2.094244	-	-	0.000224	0.0622250	36.70	0.00	0.00	2.1	2.00		
12/09/2024 12:00	14.94	0.007386	2.051771	-	-	0.000155	0.0429778	47.30	0.00	0.00	1.9	1.90		
12/09/2024 13:00	14.76	0.008559	2.405359	-	-	0.000256	0.0710278	40.60	0.00	0.00	2.3	2.20		
12/09/2024 14:00	14.77	0.008567	2.379334	-	-	0.000229	0.0634000	40.60	0.00	0.00	2.0	2.20		
12/09/2024 15:00	14.77	0.008446	2.346073	-	-	0.000227	0.0630500	40.40	0.00	0.00	2.0	2.20		
12/09/2024 16:00	14.77	0.008321	2.311435	-	-	0.000226	0.0628250	40.00	0.00	0.00	2.0	2.20		
12/09/2024 17:00	14.77	0.008310	2.308352	-	-	0.000227	0.0631000	39.70	0.00	0.00	2.0	2.20		
12/09/2024 18:00	14.76	0.008251	2.281950	-	-	0.000226	0.0625500	39.70	0.00	0.00	2.0	2.30		
12/09/2024 19:00	14.76	0.008145	2.262435	-	-	0.000224	0.0622000	39.30	0.00	0.00	2.0	2.30		
12/09/2024 20:00	14.76	0.008111	2.253049	-	-	0.000224	0.0621000	39.20	0.00	0.00	2.0	2.30		
12/09/2024 21:00	14.77	0.008152	2.265706	-	-	0.000230	0.0646889	39.20	0.00	0.00	1.8	2.10		
12/09/2024 22:00	14.77	0.008160	2.266811	-	-	0.000201	0.0557111	39.20	0.00	0.00	1.8	2.30		
12/09/2024 23:00	14.75	0.007943	2.206449	-	-	0.000198	0.0546667	38.80	0.00	0.00	1.8	2.30		
13/09/2024 00:00	14.79	0.008940	1.927903	-	-	0.000195	0.0542500	38.90	0.00	0.00	2.0	2.20		
13/09/2024 01:00	14.69	0.008051	1.863735	-	-	0.000203	0.0562350	33.10	0.00	0.00	2.0	2.30		
13/09/2024 02:00	14.69	0.008035	1.876397	-	-	0.000205	0.0564750	31.50	0.00	0.00	2.0	2.30		
13/09/2024 03:00	14.70	0.005971	1.630926	-	-	0.000180	0.0498889	31.20	0.00	0.00	1.8	2.10		
13/09/2024 04:00	14.69	0.005950	1.638817	-	-	0.000203	0.0564000	31.20	0.00	0.00	2.0	2.20		
13/09/2024 05:00	14.68	0.005857	1.607007	-	-	0.000203	0.0564000	31.00	0.00	0.00	2.0	2.20		
13/09/2024 06:00	14.87	0.005633	1.814749	-	-	0.000178	0.0493250	41.00	0.00	0.00	2.1	2.00		
13/09/2024 07:00	14.75	0.006437	1.780704	-	-	0.000214	0.0594000	32.50	0.00	0.00	2.0	2.10		
13/09/2024 08:00	14.76	0.006442	1.789579	-	-	0.000190	0.0518444	32.40	0.00	0.00	1.8	2.00		
13/09/2024 09:00	14.80	0.006552	1.819348	-	-	0.000190	0.0516444	33.40	0.00	0.00	2.0	2.00		
13/09/2024 10:00	14.79	0.006818	1.933933	-	-	0.000192	0.0533333	34.30	0.00	0.00	1.8	2.00		
13/09/2024 11:00	15.04	0.007330	2.035999	-	-	0.000150	0.0416222	49.40	0.00	0.00	1.9	1.80		
13/09/2024 12:00	14.80	0.006953	2.238832	-	-	0.000200	0.0566222	39.00	0.00	0.00	2.0	2.10		
13/09/2024 13:00	14.79	0.008001	2.222534	-	-	0.000199	0.0552667	39.00	0.00	0.00	1.8	2.10		
13/09/2024 14:00	14.80	0.007930	2.202873	-	-	0.000222	0.0616250	39.00	0.00	0.00	2.1	2.10		
13/09/2024 15:00	14.81	0.007927	2.201980	-	-	0.000246	0.0694444	39.20	0.00	0.00	2.3	2.10		
13/09/2024 16:00	14.83	0.008051	2.265952	-	-	0.000249	0.0692000	39.40	0.00	0.00	2.3	2.20		
13/09/2024 17:00	14.80	0.008092	2.244912	-	-	0.000248	0.0697222	39.40	0.00	0.00	2.3	2.20		
13/09/2024 18:00	14.78	0.008022	2.228340	-	-	0.000273	0.0787472	39.10	0.00	0.00	2.5	2.30		
13/09/2024 19:00	14.79	0.008078	2.243982	-	-	0.000251	0.0697500	39.00	0.00	0.00	2.3	2.20		
13/09/2024 20:00	14.79	0.008051	2.241596	-	-	0.000235	0.0678750	38.40	0.00	0.00	2.2	2.10		
13/09/2024 21:00	14.80	0.007814	2.170545	-	-	0.000204	0.0611750	38.00	0.00	0.00	2.1	2.10		
13/09/2024 22:00	14.77	0.007182	1.994964	-	-	0.000220	0.0611750	35.40	0.00	0.00	2.0	2.00		
14/09/2024 00:00	14.79	0.006422	1.783767	-	-	0.000191	0.0530000	36.80	0.00	0.00	2.0	2.00		
14/09/2024 01:00	14.71	0.005976	1.680118	-	-	0.000204	0.0572250	31.50	0.00	0.00	2.0	2.00		
14/09/2024 02:00	14.70	0.006048	1.680052	-	-	0.000205	0.0570000	31.60	0.00	0.00	2.0	2.00		
14/09/2024 03:00	14.71	0.006209	1.724713	-	-	0.000205	0.0569000	32.50	0.00	0.00	2.0	2.00		
14/09/2024 04:00	14.69	0.005961	1.655765	-	-	0.000180	0.0498333	31.60	0.00	0.00	1.8	2.10		
14/09/2024 05:00	14.69	0.005934	1.644396	-	-	0.000179	0.0497111	31.70	0.00	0.00	1.8	2.10		
14/09/2024 06:00	14.69	0.005963	1.656376	-	-	0.000201	0.0558000	31.70	0.00	0.00	2.0	2.10		
14/09/2024 07:00	14.81	0.006375	1.770922	-	-	0.000203	0.056							



Site Name: GULF NLL  
Stack Name: HRSGL STACK1  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading										Emission Concentration for Standardization Comparison						Remark
		O2		NOx		SOx		Dust		HRSGL_NOx@7%O2		HRSGL_SOx@7%O2		HRSGL_Dust@7%O2				
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm	ppm	ppm				
16/09/2024 09:00	14.80	0.007194	1.999324	-	-	0.000239	0.0459722	36.70	0.00	0.00	2.3	2.10	2.10					
16/09/2024 10:00	14.82	0.007481	2.078932	-	-	0.000214	0.0365250	38.20	0.00	0.00	2.1	2.10	2.10					
16/09/2024 11:00	14.84	0.007503	2.084267	-	-	0.000211	0.0365600	39.00	0.00	0.00	2.1	2.10	2.10					
16/09/2024 12:00	15.14	0.008079	2.244180	-	-	0.000166	0.0460760	56.40	0.00	0.00	2.2	1.80	1.80					
16/09/2024 13:00	14.86	0.008816	2.293380	-	-	0.000219	0.0409000	43.20	0.00	0.00	2.1	2.20	2.20					
16/09/2024 14:00	14.87	0.008726	2.423806	-	-	0.000220	0.0410250	43.70	0.00	0.00	2.1	2.20	2.20					
16/09/2024 15:00	14.87	0.008708	2.418951	-	-	0.000220	0.0412250	43.70	0.00	0.00	2.1	2.20	2.20					
16/09/2024 16:00	14.88	0.008815	2.448383	-	-	0.000223	0.0419750	43.60	0.00	0.00	2.1	2.20	2.20					
16/09/2024 17:00	14.89	0.009102	2.529396	-	-	0.000228	0.0433250	44.20	0.00	0.00	2.1	2.20	2.20					
16/09/2024 18:00	14.82	0.008872	2.464387	-	-	0.000225	0.0423750	43.10	0.00	0.00	2.1	2.30	2.30					
16/09/2024 19:00	14.79	0.008641	2.400153	-	-	0.000225	0.0424000	41.90	0.00	0.00	2.0	2.30	2.30					
16/09/2024 20:00	14.77	0.008543	2.373113	-	-	0.000200	0.0554444	41.20	0.00	0.00	1.8	2.20	2.20					
16/09/2024 21:00	14.77	0.008837	2.399191	-	-	0.000225	0.0423750	41.60	0.00	0.00	2.0	2.20	2.20					
16/09/2024 22:00	14.76	0.008706	2.418465	-	-	0.000199	0.0552499	42.10	0.00	0.00	1.8	2.20	2.20					
16/09/2024 23:00	14.75	0.008583	2.384192	-	-	0.000197	0.0548000	41.90	0.00	0.00	1.8	2.20	2.20					
17/09/2024 00:00	14.78	0.009228	2.563353	-	-	0.000209	0.0579778	42.60	0.00	0.00	1.8	2.10	2.10					
17/09/2024 01:00	14.82	0.008961	2.489284	-	-	0.000213	0.0591333	41.00	0.00	0.00	1.8	2.10	2.10					
17/09/2024 02:00	14.82	0.008988	2.491155	-	-	0.000213	0.0591778	40.90	0.00	0.00	1.8	2.10	2.10					
17/09/2024 03:00	14.81	0.008748	2.429999	-	-	0.000266	0.0738056	39.80	0.00	0.00	2.3	2.20	2.20					
17/09/2024 04:00	14.81	0.008748	2.429999	-	-	0.000266	0.0738056	40.10	0.00	0.00	2.3	2.20	2.20					
17/09/2024 05:00	14.83	0.008975	2.493025	-	-	0.000267	0.0740278	41.00	0.00	0.00	2.3	2.20	2.20					
17/09/2024 06:00	14.81	0.008724	2.423388	-	-	0.000267	0.0740278	39.70	0.00	0.00	2.3	2.20	2.20					
17/09/2024 07:00	14.77	0.008882	2.484196	-	-	0.000267	0.0740833	40.70	0.00	0.00	2.3	2.20	2.20					
17/09/2024 08:00	14.77	0.007519	2.081626	-	-	0.000247	0.0485278	36.60	0.00	0.00	2.3	2.20	2.20					
17/09/2024 09:00	14.79	0.007249	2.013506	-	-	0.000241	0.0468889	36.40	0.00	0.00	2.3	2.10	2.10					
17/09/2024 10:00	14.83	0.007216	2.004308	-	-	0.000240	0.0465833	36.70	0.00	0.00	2.3	2.10	2.10					
17/09/2024 11:00	14.84	0.007394	2.054508	-	-	0.000214	0.0555500	37.90	0.00	0.00	2.1	2.10	2.10					
17/09/2024 12:00	15.13	0.007594	2.109337	-	-	0.000166	0.0460760	52.70	0.00	0.00	2.2	1.80	1.80					
17/09/2024 13:00	14.88	0.008521	2.367025	-	-	0.000223	0.0418760	42.30	0.00	0.00	2.1	2.20	2.20					
17/09/2024 14:00	14.89	0.008630	2.452837	-	-	0.000228	0.0434250	42.80	0.00	0.00	2.1	2.20	2.20					
17/09/2024 15:00	14.88	0.008795	2.443169	-	-	0.000227	0.0431760	42.60	0.00	0.00	2.1	2.20	2.20					
17/09/2024 16:00	14.87	0.008866	2.462420	-	-	0.000227	0.0430000	43.00	0.00	0.00	2.1	2.20	2.20					
17/09/2024 17:00	14.86	0.008914	2.503786	-	-	0.000231	0.0440500	43.10	0.00	0.00	2.1	2.20	2.20					
17/09/2024 18:00	14.85	0.008851	2.489127	-	-	0.000229	0.0437350	43.00	0.00	0.00	2.1	2.30	2.30					
17/09/2024 19:00	14.83	0.008916	2.476788	-	-	0.000229	0.0437000	42.60	0.00	0.00	2.1	2.30	2.30					
17/09/2024 20:00	14.83	0.009010	2.502809	-	-	0.000230	0.0440250	42.70	0.00	0.00	2.1	2.30	2.30					
17/09/2024 21:00	14.83	0.009024	2.506718	-	-	0.000231	0.0441250	42.80	0.00	0.00	2.1	2.30	2.30					
17/09/2024 22:00	14.81	0.008949	2.485709	-	-	0.000231	0.0440750	42.10	0.00	0.00	2.1	2.30	2.30					
17/09/2024 23:00	14.80	0.008810	2.447271	-	-	0.000229	0.0436250	42.00	0.00	0.00	2.1	2.30	2.30					
18/09/2024 00:00	14.80	0.008919	2.464185	-	-	0.000238	0.0462250	43.50	0.00	0.00	2.1	2.30	2.30					
18/09/2024 01:00	14.80	0.008955	2.487413	-	-	0.000239	0.0464760	40.80	0.00	0.00	2.1	2.20	2.20					
18/09/2024 02:00	14.80	0.008734	2.426116	-	-	0.000240	0.0467000	39.80	0.00	0.00	2.1	2.00	2.00					
18/09/2024 03:00	14.81	0.008885	2.412476	-	-	0.000212	0.0519566	39.70	0.00	0.00	1.8	2.10	2.10					
18/09/2024 04:00	14.81	0.008788	2.432743	-	-	0.000213	0.0591111	39.90	0.00	0.00	1.8	2.10	2.10					
18/09/2024 05:00	14.81	0.008998	2.416113	-	-	0.000213	0.0590444	39.80	0.00	0.00	1.8	2.10	2.10					
18/09/2024 06:00	14.81	0.008711	2.419251	-	-	0.000213	0.0591333	39.70	0.00	0.00	1.8	2.10	2.10					
18/09/2024 07:00	14.81	0.008721	2.436401	-	-	0.000213	0.0592000	40.00	0.00	0.00	1.8	2.20	2.20					
18/09/2024 08:00	14.77	0.007660	2.100134	-	-	0.000200	0.0554667	36.50	0.00	0.00	1.8	2.10	2.10					
18/09/2024 09:00	14.80	0.007396	2.054395	-	-	0.000224	0.0422000	35.90	0.00	0.00	2.1	2.10	2.10					
18/09/2024 10:00	14.81	0.007264	2.017781	-	-	0.000240	0.0467000	35.60	0.00	0.00	2.3	2.00	2.00					
18/09/2024 11:00	14.82	0.007495	2.081853	-	-	0.000246	0.0483066	37.10	0.00	0.00	2.3	2.10	2.10					
18/09/2024 12:00	15.02	0.007230	2.008275	-	-	0.000189	0.0525833	48.00	0.00	0.00	2.4	1.90	1.90					
18/09/2024 13:00	14.87	0.008789	2.441001	-	-	0.000254	0.0705278	42.50	0.00	0.00	2.3	2.20	2.20					
18/09/2024 14:00	14.88	0.008837	2.482630	-	-	0.000259	0.0439000	42.90	0.00	0.00	2.3	2.20	2.20					
18/09/2024 15:00	14.86	0.008864	2.480104	-	-	0.000229	0.0437000	43.00	0.00	0.00	2.1	2.20	2.20					
18/09/2024 16:00	14.80	0.008718	2.421621	-	-	0.000229	0.0436500	41.50	0.00	0.00	2.1	2.30	2.30					
18/09/2024 17:00	14.78	0.008987	2.413045	-	-	0.000232	0.0437750	41.10	0.00	0.00	2.0	2.30	2.30					
18/09/2024 18:00	14.77	0.008547	2.374211	-	-	0.000203	0.0546400	40.70	0.00	0.00	1.8	2.30	2.30					
18/09/2024 19:00	14.77	0.008500	2.361124	-	-	0.000202	0.0540989	40.60	0.00	0.00	1.8	2.30	2.30					
18/09/2024 20:00	14.77	0.008592	2.381544	-	-	0.000203	0.0563778	40.80	0.00	0.00	1.8	2.40	2.40					
18/09/2024 21:00	14.78	0.008628	2.398472	-	-	0.000231	0.0460500	40.70	0.00	0.00	2.0	2.30	2.30					
18/09/2024 22:00	14.78	0.008640	2.411003	-	-	0.000231	0.0460750	40.80	0.00	0.00	2.0	2.30	2.30					
18/09/2024 23:00	14.77	0.008537	2.371414	-	-	0.000228	0.0433750	40.70	0.00	0.00	2.0	2.40	2.40					
19/09/2024 00:00	14.77	0.009081	2.522443	-	-	0.000239	0.0463000	41.20	0.00	0.00	2.0	2.30	2.30					
19/09/2024 01:00	14.80	0.008767	2.435209	-	-	0.000241	0.0449500	39.70	0.00	0.00	2.1	2.30	2.30					
19/09/2024 02:00	14.80	0.008703	2.417897	-	-	0.000243	0.0469500	39.30	0.00	0.00	2.1	2.30	2.30					
19/09/2024 03:00	14.80	0.008342	2.317168	-	-	0.000239	0.0461750	38.70	0.00	0.00	2.1	2.20	2.20					
19/09/2024 04:00	14.80	0.008517	2.335901	-	-	0.000240	0.0465750	38.70	0.00	0.00	2.1	2.20	2.20</					



Site Name: GULF NLL  
Stack Name: HRS01\_STACK1  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark					
		Q2	Ton	NOx (g/s)	SOx (g/s)	Dust (g/s)	HRSG1_NOx@7%O2			HRSG1_SOx@7%O2			HRSG1_Dust (7%O2)			HRSG1_CO@7%O2			
							ppm	ppm	ppm	ppm	ppm	ppm	ppm		ppm	ppm	ppm	ppm	ppm
21/09/2024 12:00	15.07	0.007441	1.983502	-	-	0.000169	0.0469750	48.20	0.00	0.00	2.1	1.90							
21/09/2024 13:00	14.85	0.007990	2.219503	-	-	0.000226	0.0682950	38.80	0.00	0.00	2.1	2.20							
21/09/2024 14:00	14.83	0.007946	2.207200	-	-	0.000228	0.0682250	38.30	0.00	0.00	2.1	2.20							
21/09/2024 15:00	14.81	0.008012	2.225895	-	-	0.000262	0.0700050	38.50	0.00	0.00	2.3	2.20							
21/09/2024 16:00	14.81	0.008095	2.248448	-	-	0.000255	0.0707222	38.50	0.00	0.00	2.3	2.10							
21/09/2024 17:00	14.79	0.007996	2.221165	-	-	0.000255	0.0706844	37.90	0.00	0.00	2.3	2.10							
21/09/2024 18:00	14.80	0.007987	2.218546	-	-	0.000254	0.0706111	38.10	0.00	0.00	2.3	2.20							
21/09/2024 19:00	14.78	0.007851	2.189971	-	-	0.000277	0.0768187	37.70	0.00	0.00	2.5	2.10							
21/09/2024 20:00	14.81	0.008114	2.252948	-	-	0.000255	0.0708889	38.60	0.00	0.00	2.3	2.20							
21/09/2024 21:00	14.84	0.008978	2.299352	-	-	0.000256	0.0710556	39.50	0.00	0.00	2.3	2.10							
21/09/2024 22:00	14.81	0.008066	2.240611	-	-	0.000255	0.0708889	38.40	0.00	0.00	2.3	2.10							
21/09/2024 23:00	14.81	0.008076	2.243349	-	-	0.000254	0.0705556	38.50	0.00	0.00	2.3	2.10							
22/09/2024 00:00	14.82	0.006738	1.888446	-	-	0.000219	0.0605933	37.80	0.00	0.00	2.3	2.00							
22/09/2024 01:00	14.75	0.006330	1.758468	-	-	0.000235	0.0653611	32.40	0.00	0.00	2.3	2.10							
22/09/2024 02:00	14.73	0.005915	1.662491	-	-	0.000232	0.0645000	30.90	0.00	0.00	2.3	2.10							
22/09/2024 03:00	14.72	0.005921	1.644591	-	-	0.000253	0.0701881	30.90	0.00	0.00	2.5	2.10							
22/09/2024 04:00	14.71	0.005812	1.614521	-	-	0.000248	0.0689928	30.70	0.00	0.00	2.5	2.10							
22/09/2024 05:00	14.71	0.005937	1.663960	-	-	0.000246	0.0683222	30.10	0.00	0.00	2.5	2.10							
22/09/2024 06:00	14.71	0.005661	1.672442	-	-	0.000249	0.0691472	29.90	0.00	0.00	2.5	2.00							
22/09/2024 07:00	14.69	0.005568	1.645487	-	-	0.000234	0.0650528	31.10	0.00	0.00	2.5	2.00							
22/09/2024 08:00	14.72	0.005492	1.625484	-	-	0.000229	0.0637083	31.40	0.00	0.00	2.5	2.00							
22/09/2024 09:00	14.71	0.005573	1.648029	-	-	0.000228	0.0637389	31.80	0.00	0.00	2.5	2.00							
22/09/2024 10:00	14.70	0.005453	1.614739	-	-	0.000238	0.0660917	30.00	0.00	0.00	2.5	2.00							
22/09/2024 11:00	14.69	0.005792	1.602002	-	-	0.000237	0.0657861	32.00	0.00	0.00	2.5	2.10							
22/09/2024 12:00	14.70	0.006337	1.757454	-	-	0.000212	0.0587500	35.70	0.00	0.00	2.2	2.20							
22/09/2024 13:00	14.71	0.006525	1.812474	-	-	0.000221	0.0613611	35.30	0.00	0.00	2.5	2.20							
22/09/2024 14:00	14.71	0.006614	1.837099	-	-	0.000224	0.0621944	35.30	0.00	0.00	2.2	2.20							
22/09/2024 15:00	14.71	0.006444	1.845487	-	-	0.000224	0.0620933	35.50	0.00	0.00	2.2	2.20							
22/09/2024 16:00	14.69	0.006724	1.867456	-	-	0.000219	0.0615000	36.20	0.00	0.00	2.0	2.20							
22/09/2024 17:00	14.84	0.007211	2.003012	-	-	0.000167	0.0462889	42.50	0.00	0.00	1.8	2.10							
22/09/2024 18:00	14.74	0.007581	2.105778	-	-	0.000247	0.0686467	36.80	0.00	0.00	2.3	2.20							
22/09/2024 19:00	14.73	0.007433	2.064795	-	-	0.000270	0.0749933	36.20	0.00	0.00	2.5	2.20							
22/09/2024 20:00	14.75	0.007476	2.076714	-	-	0.000271	0.0746111	36.40	0.00	0.00	2.5	2.20							
22/09/2024 21:00	14.76	0.007435	2.065349	-	-	0.000222	0.0617500	36.30	0.00	0.00	2.0	2.20							
22/09/2024 22:00	14.76	0.007445	2.068160	-	-	0.000221	0.0614500	36.50	0.00	0.00	2.0	2.20							
22/09/2024 23:00	14.82	0.008978	2.493361	-	-	0.000240	0.0644500	41.00	0.00	0.00	2.1	2.20							
23/09/2024 00:00	14.84	0.008972	2.381024	-	-	0.000241	0.0645000	39.00	0.00	0.00	2.1	2.10							
23/09/2024 01:00	14.84	0.008972	2.242330	-	-	0.000240	0.0646250	37.00	0.00	0.00	2.1	2.00							
23/09/2024 02:00	14.85	0.008013	2.225894	-	-	0.000240	0.0645500	36.60	0.00	0.00	2.1	2.00							
23/09/2024 03:00	14.84	0.007892	2.192290	-	-	0.000239	0.0643750	36.20	0.00	0.00	2.1	2.10							
23/09/2024 04:00	14.83	0.007845	2.179236	-	-	0.000239	0.0644000	36.10	0.00	0.00	2.1	2.10							
23/09/2024 05:00	14.82	0.007654	1.726112	-	-	0.000239	0.0644750	34.90	0.00	0.00	2.1	2.10							
23/09/2024 06:00	14.82	0.007651	1.725313	-	-	0.000239	0.0644500	34.90	0.00	0.00	2.1	2.00							
23/09/2024 07:00	14.79	0.007863	2.184159	-	-	0.000240	0.0645500	35.70	0.00	0.00	2.0	2.00							
23/09/2024 08:00	14.79	0.006615	1.837450	-	-	0.000223	0.0615000	32.20	0.00	0.00	2.0	2.00							
23/09/2024 09:00	14.80	0.006436	1.787734	-	-	0.000231	0.0615250	31.60	0.00	0.00	2.1	2.00							
23/09/2024 10:00	14.82	0.006366	1.768382	-	-	0.000221	0.0613000	31.50	0.00	0.00	2.1	2.00							
23/09/2024 11:00	14.82	0.006554	1.820434	-	-	0.000218	0.0604750	32.00	0.00	0.00	2.1	2.10							
23/09/2024 12:00	15.07	0.006990	1.941710	-	-	0.000170	0.0471500	47.00	0.00	0.00	1.1	1.80							
23/09/2024 13:00	14.85	0.007595	2.109791	-	-	0.000249	0.0652222	37.40	0.00	0.00	2.3	2.20							
23/09/2024 14:00	14.85	0.007644	2.123337	-	-	0.000226	0.0627000	37.20	0.00	0.00	2.1	2.20							
23/09/2024 15:00	14.84	0.007633	2.120327	-	-	0.000227	0.0630000	37.00	0.00	0.00	2.1	2.20							
23/09/2024 16:00	14.83	0.007619	2.114102	-	-	0.000229	0.0634750	36.50	0.00	0.00	2.1	2.10							
23/09/2024 17:00	14.83	0.007897	2.193519	-	-	0.000232	0.0643750	37.30	0.00	0.00	2.1	2.10							
23/09/2024 18:00	14.82	0.007733	2.148093	-	-	0.000230	0.0632250	36.80	0.00	0.00	2.1	2.10							
23/09/2024 19:00	14.81	0.007715	2.143113	-	-	0.000231	0.0640750	36.60	0.00	0.00	2.1	2.10							
23/09/2024 20:00	14.81	0.007685	2.134704	-	-	0.000231	0.0642250	36.40	0.00	0.00	2.1	2.10							
23/09/2024 21:00	14.81	0.007775	2.159836	-	-	0.000232	0.0645750	36.40	0.00	0.00	2.1	2.10							
23/09/2024 22:00	14.80	0.007634	2.120453	-	-	0.000231	0.0642000	36.00	0.00	0.00	2.1	2.10							
23/09/2024 23:00	14.79	0.007622	2.117254	-	-	0.000204	0.0594222	36.00	0.00	0.00	1.8	2.10							
24/09/2024 00:00	14.78	0.006587	1.829746	-	-	0.000176	0.0489333	36.10	0.00	0.00	1.8	2.00							
24/09/2024 01:00	14.73	0.006286	1.746171	-	-	0.000189	0.0522889	31.90	0.00	0.00	1.8	2.20							
24/09/2024 02:00	14.73	0.006261	1.739032	-	-	0.000189	0.0524444	31.80	0.00	0.00	1.8	2.20							
24/09/2024 03:00	14.69	0.005987	1.653087	-	-	0.000184	0.0512444	31.00	0.00	0.00	1.8	2.10							
24/09/2024 04:00	14.70	0.005974	1.658481	-	-	0.000184	0.0511333	31.00	0.00	0.00	1.8	2.10							
24/09/2024 05:00	14.71	0.005964	1.656596	-	-	0.000207	0.0574250	31.00	0.00	0.00	2.0	2.10							
24/09/2024 06:00	14.71	0.005987	1.663087	-	-	0.000208	0.0578500	30.90	0.00	0.00	2.0	2.10							
24/09/2024 07:00	14.83	0.006303	1.759948	-	-	0.000188	0.0523500	36.00	0.00	0.00	2.1	2.10							
24/09/2024 08:00	14.80	0.006789	1.895955	-	-	0.000225	0.0625500	32.80	0.00	0.00	2.1	2.10							
24/09/2024 09:00	14.80	0.006753	1.875799	-	-	0.000251	0.0697222	32.70	0.00	0.00	2.3	2.10							
24/09/2024 10:00	14.79	0.007129	1.980200	-	-	0.000203	0.0565111	33.90	0.00	0.00	1.8	2.00							
24/09/2024 11:00	14.78	0.006935	1.942933	-	-	0.000176	0.0481444	33.60	0.00	0.00	1.8	2.10							
24/09/2024 12:00	14.81	0.006420	1.781401	-	-	0.000217	0.0621617	40.50	0.00	0.00	1.6	1.90							
24/09/2024 13:00	14.80	0.007378	2.049352	-	-	0.000205</													



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:00:30/10/2024 23:59

Date & Time	Operation Co	Emission Loading				Emission Concentration for Standardization Comparison					Remark
		NOx		SOx		Dust		HRSG1_NOx@7%O2			
		%	Ton (g/s)	Ton (g/s)	Ton (g/s)	Ton (g/s)	ppm	ppm	mg/m3		
26/09/2024 15:00	14.81	0.007193	1.998194	-	-	0.000229	0.0637250	34.30	0.00	2.1	
26/09/2024 16:00	14.79	0.007067	1.963043	-	-	0.000270	0.0775500	33.60	0.00	2.5	
26/09/2024 17:00	14.79	0.007039	1.965187	-	-	0.000260	0.0777639	33.50	0.00	2.2	
26/09/2024 18:00	14.78	0.007014	1.948243	-	-	0.000279	0.0774889	33.30	0.00	2.5	
26/09/2024 19:00	14.78	0.006971	1.936515	-	-	0.000278	0.0775500	33.20	0.00	2.5	
26/09/2024 20:00	14.77	0.006932	1.925525	-	-	0.000260	0.0776417	32.90	0.00	2.3	
26/09/2024 21:00	14.78	0.006965	1.934618	-	-	0.000281	0.0780093	32.90	0.00	2.3	
26/09/2024 22:00	14.77	0.006956	1.932345	-	-	0.000281	0.0779167	33.00	0.00	2.5	
26/09/2024 23:00	14.76	0.006875	1.909611	-	-	0.000277	0.0770000	32.80	0.00	2.5	
27/09/2024 00:00	14.77	0.006123	1.700871	-	-	0.000244	0.0678500	33.50	0.00	2.5	
27/09/2024 01:00	14.72	0.005752	1.597771	-	-	0.000232	0.0668333	29.10	0.00	2.2	
27/09/2024 02:00	14.72	0.005815	1.615299	-	-	0.000264	0.0732111	29.00	0.00	2.5	
27/09/2024 03:00	14.69	0.005531	1.536495	-	-	0.000255	0.0707361	28.40	0.00	2.5	
27/09/2024 04:00	14.69	0.005394	1.499256	-	-	0.000231	0.0642222	27.80	0.00	2.2	
27/09/2024 05:00	14.69	0.005485	1.523529	-	-	0.000235	0.0653056	27.80	0.00	2.2	
27/09/2024 06:00	14.68	0.005412	1.503440	-	-	0.000232	0.0644444	27.60	0.00	2.2	
27/09/2024 07:00	14.77	0.005513	1.531347	-	-	0.000209	0.0581389	31.90	0.00	2.3	
27/09/2024 08:00	14.76	0.005828	1.618736	-	-	0.000244	0.0677500	28.80	0.00	2.3	
27/09/2024 09:00	14.78	0.005784	1.609504	-	-	0.000267	0.0740272	28.60	0.00	2.5	
27/09/2024 10:00	14.82	0.005864	1.628066	-	-	0.000268	0.0744028	29.30	0.00	2.5	
27/09/2024 11:00	14.85	0.006050	1.690458	-	-	0.000268	0.0744333	30.30	0.00	2.5	
27/09/2024 12:00	15.07	0.006393	1.775792	-	-	0.000205	0.0570472	43.30	0.00	2.6	
27/09/2024 13:00	14.84	0.006426	1.784828	-	-	0.000270	0.0750760	31.90	0.00	2.5	
27/09/2024 14:00	14.84	0.006624	1.840105	-	-	0.000277	0.0768472	32.20	0.00	2.5	
27/09/2024 15:00	14.77	0.006959	1.933103	-	-	0.000255	0.0708611	32.80	0.00	2.3	
27/09/2024 16:00	14.78	0.006996	1.932345	-	-	0.000230	0.0637500	32.90	0.00	2.0	
27/09/2024 17:00	14.78	0.007026	1.951776	-	-	0.000256	0.0710556	32.20	0.00	2.3	
27/09/2024 18:00	14.77	0.007021	1.950249	-	-	0.000281	0.0781000	33.00	0.00	2.5	
27/09/2024 19:00	14.76	0.006823	1.895229	-	-	0.000279	0.0774889	32.40	0.00	2.5	
27/09/2024 20:00	14.77	0.006998	1.904845	-	-	0.000255	0.0708596	32.50	0.00	2.3	
27/09/2024 21:00	14.77	0.006879	1.810923	-	-	0.000256	0.0710278	32.50	0.00	2.3	
27/09/2024 22:00	14.77	0.006914	1.919923	-	-	0.000256	0.0711111	32.80	0.00	2.3	
27/09/2024 23:00	14.76	0.006839	1.899713	-	-	0.000254	0.0706111	32.50	0.00	2.3	
28/09/2024 00:00	14.78	0.006950	1.608458	-	-	0.000246	0.0682306	32.90	0.00	2.5	
28/09/2024 01:00	14.72	0.005958	1.585079	-	-	0.000258	0.0715817	28.50	0.00	2.5	
28/09/2024 02:00	14.73	0.005780	1.605521	-	-	0.000266	0.0739139	28.50	0.00	2.5	
28/09/2024 03:00	14.72	0.005680	1.577645	-	-	0.000261	0.0726308	28.50	0.00	2.3	
28/09/2024 04:00	14.72	0.005663	1.573592	-	-	0.000265	0.0735778	28.00	0.00	2.5	
28/09/2024 05:00	14.71	0.005618	1.560440	-	-	0.000263	0.0729272	28.00	0.00	2.5	
28/09/2024 06:00	14.71	0.005595	1.554029	-	-	0.000260	0.0721111	28.30	0.00	2.5	
28/09/2024 07:00	14.81	0.005639	1.566404	-	-	0.000231	0.0640444	32.80	0.00	2.5	
28/09/2024 08:00	14.78	0.005723	1.603530	-	-	0.000246	0.0738222	28.90	0.00	2.5	
28/09/2024 09:00	14.79	0.005681	1.577844	-	-	0.000268	0.0744028	28.20	0.00	2.5	
28/09/2024 10:00	14.81	0.005872	1.631072	-	-	0.000297	0.0825667	28.90	0.00	2.7	
28/09/2024 11:00	14.77	0.006012	1.670623	-	-	0.000270	0.0751361	29.40	0.00	2.5	
28/09/2024 12:00	15.05	0.006276	1.882112	-	-	0.000205	0.0570472	45.80	0.00	2.6	
28/09/2024 13:00	14.79	0.006427	1.840836	-	-	0.000277	0.0768778	31.90	0.00	2.5	
28/09/2024 14:00	14.77	0.006361	1.767023	-	-	0.000271	0.0764111	31.00	0.00	2.5	
28/09/2024 15:00	14.81	0.006418	1.782806	-	-	0.000247	0.0664667	31.60	0.00	2.3	
28/09/2024 16:00	14.83	0.006470	1.797177	-	-	0.000247	0.0687222	31.80	0.00	2.3	
28/09/2024 17:00	14.84	0.006498	1.832788	-	-	0.000251	0.0695923	32.20	0.00	2.5	
28/09/2024 18:00	14.82	0.006677	1.854722	-	-	0.000252	0.0699167	32.10	0.00	2.3	
28/09/2024 19:00	14.79	0.006556	1.821029	-	-	0.000253	0.0701389	31.50	0.00	2.3	
28/09/2024 20:00	14.78	0.006503	1.834226	-	-	0.000253	0.0701389	31.50	0.00	2.3	
28/09/2024 21:00	14.78	0.006532	1.842716	-	-	0.000254	0.0704444	31.50	0.00	2.3	
28/09/2024 22:00	14.75	0.006480	1.799558	-	-	0.000251	0.0698333	31.10	0.00	2.3	
28/09/2024 23:00	14.75	0.006346	1.762654	-	-	0.000248	0.0688889	30.70	0.00	2.3	
29/09/2024 00:00	14.76	0.005943	1.622882	-	-	0.000219	0.0607500	32.50	0.00	2.3	
29/09/2024 01:00	14.71	0.005529	1.480346	-	-	0.000211	0.0585250	27.00	0.00	2.0	
29/09/2024 02:00	14.71	0.005290	1.463559	-	-	0.000213	0.0590760	26.80	0.00	2.0	
29/09/2024 03:00	14.69	0.005223	1.450902	-	-	0.000210	0.0583250	26.60	0.00	2.0	
29/09/2024 04:00	14.68	0.005034	1.398391	-	-	0.000228	0.0635278	26.20	0.00	2.2	
29/09/2024 05:00	14.68	0.005064	1.406643	-	-	0.000228	0.0633611	26.50	0.00	2.4	
29/09/2024 06:00	14.68	0.005037	1.399242	-	-	0.000227	0.0630278	26.30	0.00	2.2	
29/09/2024 07:00	14.68	0.004899	1.358050	-	-	0.000192	0.0532500	27.20	0.00	2.0	
29/09/2024 08:00	14.71	0.004709	1.308194	-	-	0.000209	0.0579444	27.10	0.00	2.2	
29/09/2024 09:00	14.73	0.004844	1.345654	-	-	0.000213	0.0581111	27.30	0.00	2.3	
29/09/2024 10:00	14.75	0.004866	1.351675	-	-	0.000191	0.0530000	27.70	0.00	2.0	
29/09/2024 11:00	14.77	0.004767	1.324259	-	-	0.000187	0.0519250	27.60	0.00	2.0	
29/09/2024 12:00	14.74	0.004985	1.384798	-	-	0.000189	0.0525750	28.50	0.00	2.0	
29/09/2024 13:00	14.72	0.005052	1.409810	-	-	0.000190	0.0528750	29.70	0.00	2.0	
29/09/2024 14:00	14.75	0.005332	1.481125	-	-	0.000190	0.0528750	30.40	0.00	2.0	
29/09/2024 15:00	14.75	0.005297	1.471462	-	-	0.000191	0.0529250	30.10	0.00	2.0	
29/09/2024 16:00	14.72	0.005407	1.502045	-	-	0.000216	0.0605278	29.90	0.00	2.2	
29/09/2024 17:00	14.70	0.005356	1.487866	-	-	0.000197	0.0547500	29.20	0.00	2.0	
29/09/2024 18:00	14.79	0.007788	2.163348	-	-	0.000242	0.0872000	35.10	0.00	2.0	
29/09/2024 19:00	14.78	0.007910	2.197151	-	-	0.000243	0.0873750	35.30	0.00	2.0	
29/09/2024 20:00	14.78	0.007872	2.145817	-	-	0.000243	0.0874750	35.60	0.00	2.0	
29/09/2024 21:00	14.77	0.007881	2.216978	-	-	0.000243	0.0875500	35.50	0.00	2.0	
29/09/2024 22:00	14.77	0.007930	2.202858	-	-	0.000270	0.0760556	35.40	0.00	2.3	
29/09/2024 23:00	14.68	0.005614	1.559558	-	-	0.000223	0.0618811	30.00	0.00	2.2	
30/09/2024 00:00	14.68	0.005132	1.425676	-	-	0.000220	0.0611111	27.60	0.00	2.2	
30/09/2024 01:00	14.66	0.004887	1.387617	-	-	0.000218	0.0606389	28.50	0.00	2.2	
30/09/2024 02:00	14.72	0.005629	1.563446	-	-	0.000206	0.0571000	29.50	0.00	2.0	
30/09/2024 03:00	14.79	0.006930	1.924892	-	-	0.000240	0.0667250	31.40	0.00	2.0	
30/09/											



Site Name: GULF NLL  
Stack Name: HRSQ STACK2  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		O2	NOx		SOx		Dust	HRSQ2_NOx@7%O2	HRSQ2_SOx@7%O2	HRSQ2_Dust@7%O2	HRSQ2_CO@7%O2	
		%	ton	(g/s)	ton	(g/s)	ton	(g/s)	ppm	ppm	mg/m3	ppm
01/09/2024 00:00	15.85	0.005339	2.16431	0.000193	0.174818	0.000000	-	35.80	2.90	0.00	0.30	
01/09/2024 01:00	15.79	0.007626	2.18294	0.001206	0.319057	0.000000	-	30.70	3.60	0.00	0.30	
01/09/2024 02:00	15.79	0.007476	2.07642	0.001119	0.364426	0.000000	-	30.30	3.70	0.00	0.30	
01/09/2024 03:00	15.77	0.007024	1.951018	0.001369	0.389522	0.000000	-	29.10	4.00	0.00	0.20	
01/09/2024 04:00	15.77	0.006786	1.876750	0.001449	0.401712	0.000000	-	28.10	4.20	0.00	0.20	
01/09/2024 05:00	15.77	0.006932	1.922813	0.0013628	0.375569	0.000000	-	28.70	4.10	0.00	0.20	
01/09/2024 06:00	15.78	0.006474	1.798332	0.0014269	0.396361	0.000000	-	27.40	4.10	0.00	0.20	
01/09/2024 07:00	15.81	0.005914	1.642846	0.001359	0.384960	0.000000	-	26.00	4.10	0.00	0.10	
01/09/2024 08:00	15.85	0.006350	1.750238	0.0013750	0.381335	0.000000	-	28.00	4.10	0.00	0.10	
01/09/2024 09:00	15.86	0.006035	1.676418	0.0013850	0.384727	0.000000	-	26.70	4.10	0.00	0.10	
01/09/2024 10:00	15.85	0.005973	1.699230	0.0013997	0.389799	0.000000	-	26.10	4.10	0.00	0.10	
01/09/2024 11:00	15.90	0.006016	1.670842	0.0013804	0.382447	0.000000	-	26.90	4.10	0.00	0.10	
01/09/2024 12:00	15.91	0.006121	1.733513	0.0013620	0.378229	0.000000	-	28.70	4.10	0.00	0.10	
01/09/2024 13:00	15.94	0.006046	1.679361	0.0013733	0.381470	0.000000	-	27.40	4.10	0.00	0.10	
01/09/2024 14:00	15.94	0.005870	1.630434	0.0013754	0.382051	0.000000	-	26.70	4.10	0.00	0.10	
01/09/2024 15:00	15.93	0.005589	1.655258	0.0013963	0.387888	0.000233	0.0648278	26.50	4.10	0.00	0.20	
01/09/2024 16:00	15.92	0.006121	1.702444	0.0013036	0.362121	0.000000	-	27.20	4.10	0.00	0.20	
01/09/2024 17:00	16.01	0.007382	2.171566	0.0014302	0.397277	0.000000	-	37.90	4.70	0.00	0.20	
01/09/2024 18:00	15.97	0.009487	2.635358	0.0014215	0.394863	0.000000	-	36.60	3.80	0.00	0.20	
01/09/2024 19:00	15.94	0.009129	2.535832	0.0014104	0.384912	0.000000	-	35.40	3.70	0.00	0.30	
01/09/2024 20:00	15.81	0.009327	2.626320	0.0014335	0.389203	0.000000	-	37.30	3.50	0.00	0.30	
01/09/2024 21:00	15.88	0.009812	2.447879	0.0012059	0.324964	0.000000	-	33.70	3.30	0.00	0.20	
01/09/2024 22:00	15.87	0.008640	2.400227	0.0011019	0.306090	0.000000	-	33.10	3.20	0.00	0.20	
01/09/2024 23:00	15.87	0.010813	2.603515	0.0007488	0.207458	0.000000	-	39.00	1.90	0.00	0.20	
02/09/2024 00:00	15.85	0.010709	2.614714	0.0006288	0.118150	0.000000	-	36.30	1.10	0.00	0.20	
02/09/2024 01:00	15.85	0.010473	2.509090	0.0003214	0.089322	0.000000	-	37.40	0.90	0.00	0.20	
02/09/2024 02:00	15.85	0.010560	2.933344	0.0003217	0.089369	0.000000	-	37.60	0.80	0.00	0.30	
02/09/2024 03:00	15.83	0.010445	2.901272	0.0003137	0.059361	0.000000	-	37.30	0.50	0.00	0.50	
02/09/2024 04:00	15.81	0.010434	2.878523	0.0003135	0.059203	0.000000	-	37.30	0.40	0.00	0.40	
02/09/2024 05:00	15.83	0.010589	2.844084	0.0002153	0.059797	0.000000	-	37.60	0.50	0.00	0.40	
02/09/2024 06:00	15.84	0.010393	2.818994	0.0002142	0.059506	0.000000	-	37.00	0.60	0.00	0.40	
02/09/2024 07:00	15.83	0.010635	2.954107	0.0002160	0.060001	0.000000	-	37.20	0.50	0.00	0.40	
02/09/2024 08:00	15.87	0.009382	2.658186	0.0002119	0.154963	0.000000	-	34.80	1.70	0.00	0.20	
02/09/2024 09:00	15.83	0.008733	2.439740	0.0001025	0.281245	0.000000	-	33.00	2.80	0.00	0.20	
02/09/2024 10:00	15.86	0.008776	2.465557	0.0011227	0.311849	0.000000	-	33.20	3.10	0.00	0.20	
02/09/2024 11:00	15.90	0.008788	2.443926	0.0014281	0.356495	0.000000	-	33.60	3.00	0.00	0.10	
02/09/2024 12:00	16.03	0.009118	2.523819	0.0008020	0.224458	0.000000	-	44.70	3.00	0.00	0.10	
02/09/2024 13:00	15.90	0.009087	2.524189	0.0012436	0.345434	0.000000	-	33.90	3.20	0.00	0.20	
02/09/2024 14:00	15.87	0.009055	2.515262	0.0009294	0.258160	0.000000	-	33.60	2.50	0.00	0.20	
02/09/2024 15:00	15.85	0.008993	2.498048	0.0007179	0.194166	0.000274	0.0781833	33.50	1.90	0.00	0.20	
02/09/2024 16:00	15.84	0.009335	2.481993	0.0007152	0.193773	0.000000	-	33.30	1.80	0.00	0.20	
02/09/2024 17:00	15.84	0.009127	2.535237	0.0006194	0.172063	0.000000	-	33.60	1.70	0.00	0.20	
02/09/2024 18:00	15.83	0.008988	2.496773	0.0006150	0.170841	0.000000	-	33.50	1.70	0.00	0.20	
02/09/2024 19:00	15.85	0.008899	2.471881	0.0006139	0.170526	0.000000	-	33.40	1.70	0.00	0.40	
02/09/2024 20:00	15.84	0.008919	2.478772	0.0006153	0.170928	0.000000	-	33.10	1.60	0.00	0.40	
02/09/2024 21:00	15.81	0.008937	2.482631	0.0006168	0.171277	0.000000	-	33.00	1.50	0.00	0.50	
02/09/2024 22:00	15.81	0.009037	2.510162	0.0006153	0.143131	0.000000	-	33.30	1.50	0.00	0.40	
02/09/2024 23:00	15.80	0.009011	2.503148	0.0006138	0.142731	0.000000	-	33.10	1.30	0.00	0.30	
03/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
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03/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
03/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
03/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
03/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
03/09/2024 08:00	15.90	0.010881	3.016988	0.0001898	0.055231	0.000000	-	45.50	0.50	0.00	0.50	
03/09/2024 09:00	15.83	0.010224	2.839928	0.0002018	0.056445	0.000000	-	38.50	0.50	0.00	0.20	
03/09/2024 10:00	15.82	0.010458	2.904872	0.0002035	0.056525	0.000000	-	39.10	0.60	0.00	0.20	
03/09/2024 11:00	15.84	0.010211	2.835222	0.0004002	0.111060	0.000000	-	39.00	1.10	0.00	0.10	
03/09/2024 12:00	16.03	0.010460	2.911552	0.0001585	0.044953	0.000000	-	53.50	0.50	0.00	0.10	
03/09/2024 13:00	15.89	0.010783	2.995346	0.0006124	0.170100	0.000000	-	40.80	1.70	0.00	0.20	
03/09/2024 14:00	15.91	0.010929	3.035833	0.0006164	0.171234	0.000000	-	41.10	1.80	0.00	0.20	
03/09/2024 15:00	15.93	0.010775	2.893942	0.0007139	0.198297	0.000273	0.0787556	41.50	1.90	0.00	0.20	
03/09/2024 16:00	15.93	0.011015	3.058101	0.0007249	0.201351	0.000000	-	41.50	1.90	0.00	0.20	
03/09/2024 17:00	15.93	0.011218	3.116053	0.0005202	0.144513	0.000000	-	42.00	1.50	0.00	0.20	
03/09/2024 18:00	15.91	0.011112	3.086714	0.0004150	0.115290	0.000000	-	41.60	1.10	0.00	0.20	
03/09/2024 19:00	15.89	0.010979	3.049755	0.0003096	0.089910	0.000000	-	40.90	0.90	0.00	0.20	
03/09/2024 20:00	15.87	0.010922	3.021558	0.0003101	0.088440	0.000000	-	40.60	0.80	0.00	0.20	
03/09/2024 21:00	15.88	0.010949	3.046118	0.0003114	0.088511	0.000000	-	40.70	0.80	0.00	0.20	
03/09/2024 22:00	15.89	0.011184	3.098394	0.0002083	0.057863	0.000000	-	41.30	0.70	0.00	0.20	
03/09/2024 23:00	15.89	0.011280	3.136038	0.0002089	0.057781	0.000000	-	41.50	0.60	0.00	0.20	
04/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
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04/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down
04/09/2024 08:00	15.94	0.010872	3.020555	0.0004943	0.137314	0.000000	-	43.40	1.30	0.00	0.40	
04/09/2024 09:00	15.94	0.010361	2.877968	0.0007056	0.196006	0.000000	-	40.20	1.90	0.00	0.20	
04/09/2024 10:00	15.94	0.011043	3.067451	0.0006146	0.170710	0.000000	-	42.00	1.80	0.00	0.20	
04/09/2024 11:00	15.96	0.010894	3.019075	0.0007								



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodically: 01/10/2024 00:00:30/10/2024 23:59

Date & Time	Operation	Emission Leading								Emission Concentration for Standardization Comparison								Remark
		CO2		NOx		SOx		Dust		HRSO2_NonH2SO2		HRSO2_SOxH2SO2		HRSO2_DustH2SO2				
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	Ton	ppm	ppm	mg/m3	ppm	mg/m3	ppm			
06/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
06/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
06/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
06/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
06/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
06/09/2024 08:00	15.96	0.011014	3.053491	0.0055074	0.145950	0.000000	-	42.90	1.50	0.00	0.00	0.00	0.00	0.00	0.40	0.00		
06/09/2024 09:00	15.97	0.010591	2.865749	0.0051565	0.137097	0.000000	-	41.70	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 10:00	15.97	0.010594	3.026076	0.0057217	0.200485	0.000000	-	41.50	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 11:00	15.98	0.011060	3.072154	0.0058207	0.227363	0.000000	-	42.30	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 12:00	16.15	0.010792	2.897781	0.0054767	0.132466	0.000000	-	55.40	1.70	0.00	0.00	0.00	0.00	0.00	0.10	0.00		
06/09/2024 13:00	16.04	0.011567	3.210001	0.0059336	0.269337	0.000000	-	44.40	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
06/09/2024 14:00	16.04	0.011408	3.168779	0.0058299	0.230572	0.000000	-	43.90	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 15:00	16.03	0.011285	3.137616	0.0058326	0.231278	0.000278	0.0773111	43.20	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 16:00	16.01	0.011056	3.071140	0.0058259	0.229417	0.000000	-	42.40	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 17:00	16.00	0.011109	3.088935	0.0057261	0.201707	0.000000	-	42.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
06/09/2024 18:00	15.97	0.010924	3.034526	0.0056204	0.172324	0.000000	-	41.40	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
06/09/2024 19:00	15.94	0.010666	2.852814	0.0055153	0.143131	0.000000	-	40.30	1.40	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
06/09/2024 20:00	15.93	0.010739	2.893133	0.0054150	0.115290	0.000000	-	40.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.40		
06/09/2024 21:00	15.93	0.010892	3.022784	0.0054177	0.116017	0.000000	-	40.60	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
06/09/2024 22:00	15.92	0.010781	2.897431	0.0054170	0.115043	0.000000	-	40.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
06/09/2024 23:00	15.91	0.010480	2.813840	0.0054092	0.113400	0.000000	-	40.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down		
07/09/2024 08:00	15.92	0.009910	2.725006	0.0057699	0.213595	0.000000	-	40.90	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.40		
07/09/2024 09:00	15.95	0.009776	2.715681	0.0058936	0.248213	0.000000	-	38.40	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 10:00	15.96	0.010022	2.783535	0.0059960	0.276664	0.000000	-	39.50	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 11:00	15.98	0.010493	2.914692	0.0059999	0.277755	0.000000	-	41.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 12:00	16.17	0.010646	3.040569	0.0059710	0.130936	0.000000	-	57.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
07/09/2024 13:00	16.01	0.010401	2.889563	0.0051054	0.307050	0.000000	-	41.00	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
07/09/2024 14:00	16.00	0.010345	2.873484	0.0051071	0.307030	0.000000	-	40.60	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 15:00	15.95	0.009951	2.764050	0.0059960	0.276664	0.000266	0.0739861	39.20	2.90	0.00	0.00	0.00	0.00	0.00	0.00	1.97		
07/09/2024 16:00	15.95	0.009845	2.782597	0.0059959	0.248167	0.000000	-	39.10	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 17:00	15.95	0.010000	2.831296	0.0058952	0.223658	0.000000	-	39.60	2.20	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 18:00	15.92	0.010165	2.823716	0.0057021	0.195039	0.000000	-	39.30	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 19:00	15.89	0.010003	2.778579	0.0057009	0.194693	0.000000	-	38.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 20:00	15.90	0.010136	2.815611	0.0056901	0.164997	0.000000	-	39.30	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 21:00	15.89	0.010104	2.804768	0.0055982	0.165173	0.000000	-	39.20	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 22:00	15.89	0.010456	2.904580	0.0056017	0.139350	0.000000	-	40.20	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
07/09/2024 23:00	15.90	0.010285	2.859714	0.0055968	0.165781	0.000000	-	40.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 00:00	15.92	0.012243	3.405718	0.0053194	0.088714	0.000000	-	44.60	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 01:00	15.93	0.012102	3.388466	0.0051453	0.060074	0.000000	-	44.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.30		
08/09/2024 02:00	15.93	0.012246	3.401774	0.0052171	0.060292	0.000000	-	44.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 03:00	15.94	0.012359	3.432644	0.0052163	0.060074	0.000000	-	44.40	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 04:00	15.92	0.012032	3.342238	0.0052160	0.060051	0.000000	-	43.30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10		
08/09/2024 05:00	15.92	0.012032	3.342238	0.0052160	0.060051	0.000000	-	43.30	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.10		
08/09/2024 06:00	15.91	0.012205	3.390287	0.0051082	0.030044	0.000000	-	43.60	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 07:00	15.93	0.012202	3.389466	0.0052163	0.060074	0.000000	-	43.80	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 08:00	15.94	0.012849	3.569076	0.0054334	0.120380	0.000000	-	45.90	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 09:00	15.94	0.012638	3.510481	0.0054172	0.173765	0.000000	-	45.70	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 10:00	15.95	0.012542	3.483865	0.0057540	0.209443	0.000000	-	45.40	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 11:00	15.96	0.012459	3.460677	0.0057536	0.209342	0.000000	-	45.20	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 12:00	15.94	0.012474	3.484494	0.0057545	0.209596	0.000000	-	45.30	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.20		
08/09/2024 13:00	15.95	0.012447	3.451007	0.0057566	0.209601	0.000000	-	45.90	1.90	0.00	0.00	0.00	0.00	0.00				



Site Name: GULF HLL  
Stack Name: HRSG\_STACK2  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading				Emission Concentration for Standardization Comparison				Remark	
		NOx		SOx		Dust		HRSG2_NOx@7%O2	HRSG2_SOx@7%O2		HRSG2_Dust@7%O2
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm		ppm
11/09/2024 06:00	15.44	0.007464	2.073413	0.0004595	0.127644	0.000000	-	31.10	1.40	0.40	0.40
11/09/2024 07:00	15.97	0.008757	2.432560	0.0003408	0.094669	0.000000	-	40.80	1.10	0.00	0.20
11/09/2024 08:00	15.94	0.009204	2.556884	0.0004002	0.111160	0.000000	-	36.00	1.20	0.00	0.20
11/09/2024 09:00	15.97	0.009435	2.620714	0.0005012	0.167002	0.000000	-	36.90	1.70	0.00	0.20
11/09/2024 10:00	15.97	0.009392	2.608862	0.0008041	0.223267	0.000000	-	36.60	2.10	0.00	0.20
11/09/2024 11:00	15.97	0.009116	2.531934	0.0008917	0.247693	0.000000	-	36.10	2.50	0.00	0.20
11/09/2024 12:00	16.18	0.010156	2.821145	0.0002355	0.065418	0.000000	-	53.10	0.80	0.10	0.10
11/09/2024 13:00	15.98	0.009703	2.695217	0.0006136	0.170449	0.000000	-	37.40	1.70	0.00	0.20
11/09/2024 14:00	15.97	0.009725	2.701426	0.0004100	0.113984	0.000000	-	37.10	1.10	0.00	0.50
11/09/2024 15:00	15.98	0.009729	2.702429	0.0003053	0.084810	0.000272	0.0756000	37.50	0.80	1.98	0.30
11/09/2024 16:00	15.97	0.009522	2.644869	0.0003057	0.084919	0.000000	-	36.70	0.90	0.40	0.40
11/09/2024 17:00	15.99	0.009747	2.707635	0.0003082	0.085617	0.000000	-	37.20	0.70	0.00	0.30
11/09/2024 18:00	15.97	0.009597	2.655099	0.0002039	0.056427	0.000000	-	37.00	0.60	0.00	0.20
11/09/2024 19:00	15.95	0.009514	2.642831	0.0002036	0.056569	0.000000	-	36.60	0.60	0.00	0.40
11/09/2024 20:00	15.95	0.009524	2.645549	0.0002039	0.056427	0.000000	-	36.50	0.50	0.00	0.30
11/09/2024 21:00	15.93	0.009570	2.658457	0.0001024	0.026452	0.000000	-	36.30	0.30	0.00	0.70
11/09/2024 22:00	15.91	0.009637	2.675853	0.0001022	0.026450	0.000000	-	36.40	0.30	0.00	0.50
11/09/2024 23:00	15.90	0.009443	2.623176	0.0001019	0.026292	0.000000	-	36.00	0.20	0.00	1.00
12/09/2024 00:00	15.91	0.008262	2.284983	0.0003537	0.089247	0.000000	-	36.50	1.10	0.00	0.70
12/09/2024 01:00	15.85	0.007730	2.147168	0.0004177	0.131025	0.000000	-	31.40	1.30	0.00	0.40
12/09/2024 02:00	15.84	0.009077	2.242475	0.0003809	0.105809	0.000000	-	32.30	1.20	0.00	0.40
12/09/2024 03:00	15.84	0.007633	2.120359	0.0004658	0.129389	0.000000	-	31.40	1.30	0.00	0.50
12/09/2024 04:00	15.84	0.007828	2.174532	0.0003766	0.104325	0.000000	-	32.00	1.00	0.00	0.40
12/09/2024 05:00	15.85	0.008093	2.248103	0.0002839	0.078955	0.000000	-	32.70	0.80	0.00	0.60
12/09/2024 06:00	15.83	0.007511	2.084005	0.0003699	0.102755	0.000000	-	31.70	1.20	0.00	0.30
12/09/2024 07:00	15.96	0.009077	2.521481	0.0003413	0.094815	0.000000	-	42.10	1.00	0.00	0.20
12/09/2024 08:00	15.88	0.008968	2.491055	0.0003961	0.110026	0.000000	-	34.80	1.20	0.00	0.30
12/09/2024 09:00	15.91	0.009339	2.483044	0.0006995	0.193461	0.000000	-	34.90	2.00	0.00	0.30
12/09/2024 10:00	15.97	0.009096	2.526133	0.0002039	0.051092	0.000000	-	35.00	0.60	0.00	0.30
12/09/2024 11:00	15.98	0.009302	2.481034	0.0009171	0.254757	0.000000	-	35.90	2.60	0.00	0.20
12/09/2024 12:00	16.11	0.010224	2.840085	0.0000785	0.020274	0.000000	-	52.10	0.30	0.00	0.10
12/09/2024 13:00	15.93	0.009517	2.643511	0.0001019	0.028292	0.000000	-	36.50	0.20	0.00	0.40
12/09/2024 14:00	15.91	0.009497	2.638075	-	-	0.000000	-	36.30	0.10	0.00	0.40
12/09/2024 15:00	15.91	0.009363	2.600928	-	-	0.0750167	0.0750167	35.80	1.95	0.40	0.40
12/09/2024 16:00	15.90	0.009197	2.554631	0.0001008	0.027886	0.000000	-	35.40	0.20	0.00	0.40
12/09/2024 17:00	15.91	0.009242	2.567241	0.0001012	0.028125	0.000000	-	35.50	0.30	0.00	0.40
12/09/2024 18:00	15.90	0.009105	2.532471	0.0001005	0.027828	0.000000	-	35.10	0.40	0.00	0.50
12/09/2024 19:00	15.89	0.008967	2.490883	0.0000998	0.027725	0.000000	-	34.50	0.40	0.00	0.50
12/09/2024 20:00	15.89	0.008916	2.476788	0.0002001	0.055580	0.000000	-	34.30	0.50	0.00	0.40
12/09/2024 21:00	15.91	0.008988	2.471599	0.0002013	0.055915	0.000000	-	34.30	0.70	0.00	0.50
12/09/2024 22:00	15.89	0.008902	2.432984	0.0002014	0.055944	0.000000	-	34.20	0.50	0.00	0.70
12/09/2024 23:00	15.87	0.008787	2.440744	0.0001988	0.055217	0.000000	-	33.90	0.60	0.00	0.60
13/09/2024 00:00	15.92	0.008525	2.368101	0.0003567	0.093090	0.000000	-	37.30	1.20	0.00	0.50
13/09/2024 01:00	15.82	0.007132	1.981214	0.0005964	0.154569	0.000000	-	29.30	1.70	0.00	1.10
13/09/2024 02:00	15.84	0.007399	2.055159	0.0005615	0.155955	0.000000	-	29.10	1.80	0.00	1.10
13/09/2024 03:00	15.85	0.006979	1.938895	0.0005474	0.178921	0.000000	-	29.00	1.70	0.00	1.10
13/09/2024 04:00	15.86	0.006991	1.914252	0.0007375	0.204870	0.000000	-	28.80	2.20	0.00	0.40
13/09/2024 05:00	15.85	0.007054	1.993974	0.0006481	0.180025	0.000000	-	29.10	2.00	0.00	0.70
13/09/2024 06:00	15.85	0.007064	1.967244	0.0005963	0.154525	0.000000	-	29.30	1.60	0.00	1.00
13/09/2024 07:00	16.01	0.008504	2.362311	0.0004965	0.137903	0.000000	-	41.40	1.70	0.00	0.50
13/09/2024 08:00	15.91	0.008125	2.256979	0.0008771	0.243632	0.000000	-	32.30	2.60	0.00	0.30
13/09/2024 09:00	15.93	0.008292	2.303292	0.0008799	0.244417	0.000000	-	32.60	2.40	0.00	0.30
13/09/2024 10:00	15.97	0.009408	2.354431	0.0010723	0.297952	0.000000	-	33.90	3.00	0.00	0.30
13/09/2024 11:00	15.97	0.008341	2.316859	0.0011801	0.327809	0.000000	-	33.30	3.50	0.00	0.20
13/09/2024 12:00	16.20	0.010048	2.791043	0.0003107	0.086293	0.000000	-	53.10	1.20	0.00	0.10
13/09/2024 13:00	15.99	0.008556	2.404417	0.0010036	0.278773	0.000000	-	34.10	2.70	0.00	0.20
13/09/2024 14:00	15.98	0.008631	2.475791	0.0009006	0.250174	0.000000	-	33.90	2.40	0.00	0.30
13/09/2024 15:00	15.99	0.008570	2.380586	0.0008943	0.248409	0.000228	0.0632667	34.00	2.60	1.70	0.20
13/09/2024 16:00	16.00	0.008570	2.380586	0.0009936	0.276010	0.000000	-	33.90	2.70	0.00	0.30
13/09/2024 17:00	16.00	0.008912	2.447679	0.0009044	0.281222	0.000000	-	34.00	2.50	0.00	0.30
13/09/2024 18:00	15.98	0.008761	2.433652	0.0007993	0.222030	0.000000	-	34.40	2.30	0.00	0.30
13/09/2024 19:00	15.96	0.008673	2.409277	0.0006881	0.193920	0.000000	-	34.00	2.00	0.00	0.40
13/09/2024 20:00	15.95	0.008764	2.434572	0.0006047	0.167862	0.000000	-	33.90	1.70	0.00	0.30
13/09/2024 21:00	15.94	0.008783	2.439531	0.0006059	0.169311	0.000000	-	33.80	1.70	0.00	0.30
13/09/2024 22:00	15.94	0.008862	2.454933	0.0006047	0.167862	0.000000	-	34.70	1.70	0.00	0.30
13/09/2024 23:00	15.93	0.008887	2.431072	0.0005993	0.166479	0.000000	-	34.00	1.70	0.00	0.30
14/09/2024 00:00	15.96	0.007913	2.138029	0.0006950	0.194167	0.000000	-	35.80	2.10	0.00	0.20
14/09/2024 01:00	15.88	0.007025	1.951316	0.0009308	0.285559	0.000000	-	29.00	2.80	0.00	0.30
14/09/2024 02:00	15.88	0.007122	1.972909	0.0008413	0.234845	0.000000	-	29.30	3.00	0.00	0.30
14/09/2024 03:00	15.88	0.007437	2.065720	0.0006525	0.181246	0.000000	-	30.70	2.00	0.00	0.30
14/09/2024 04:00	15.87	0.007012	1.947741	0.0006442	0.178955	0.000000	-	29.30	1.80	0.00	0.30
14/09/2024 05:00	15.86	0.006934	1.926074	0.0006513	0.153129	0.000000	-	29.00	1.80	0.00	0.30
14/09/2024 06:00	15.85	0.006788	1.891618	0.0006459	0.178294	0.000000	-	28.50	1.90	0.00	0.40
14/09/2024 07:00	15.96	0.008234	2.287186	0.0004212	0.116892	0.000000					



Site Name: GULF NLL  
Stack Name: HRS5 STACK2  
Periodically: 01/10/2024 00:00:30/01/02/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison				Remark
		NOx		SOx		Dust		HRSG2_NOx@7%O2	HRSG2_SOx@7%O2	HRSG2_Dust@7%O2	HRSG2_CO@7%O2	
		%	Ton (g/s)	%	Ton (g/s)	%	Ton (g/s)	ppm	ppm	mg/m3	ppm	
16/09/2024 09:00	15.98	0.007545	2.099848	0.0010792	0.289772	0.000000	-	30.30	3.10	0.00	0.30	
16/09/2024 10:00	16.04	0.007583	2.117668	0.0011795	0.327635	0.000000	-	32.20	3.30	0.00	0.30	
16/09/2024 11:00	16.08	0.007524	2.099017	0.0013570	0.375947	0.000000	-	31.10	3.00	0.00	0.30	
16/09/2024 12:00	16.36	0.010682	2.861607	0.0003107	0.085293	0.000000	-	58.70	1.30	0.00	0.10	
16/09/2024 13:00	16.15	0.007815	2.170707	0.0013838	0.384378	0.000000	-	32.10	4.00	0.00	0.30	
16/09/2024 14:00	16.16	0.007841	2.178180	0.0012893	0.348161	0.000000	-	32.30	3.80	0.00	0.30	
16/09/2024 15:00	16.16	0.007789	2.165505	0.0012304	0.359002	0.000266	0.0735500	32.00	3.70	2.05	0.30	
16/09/2024 16:00	16.18	0.007883	2.189709	0.0012074	0.335400	0.000000	-	32.10	3.60	0.00	0.30	
16/09/2024 17:00	16.17	0.008235	2.287435	0.0011252	0.312569	0.000000	-	33.00	3.20	0.00	0.30	
16/09/2024 18:00	16.11	0.007833	2.175828	0.0010091	0.280300	0.000000	-	31.40	3.00	0.00	0.40	
16/09/2024 19:00	16.08	0.007870	2.139549	0.0009981	0.261681	0.000000	-	30.50	2.60	0.00	0.40	
16/09/2024 20:00	16.05	0.007439	2.064483	0.0008039	0.223309	0.000000	-	29.60	2.30	0.00	0.30	
16/09/2024 21:00	16.02	0.007574	2.103865	0.0007025	0.195141	0.000000	-	30.00	2.10	0.00	0.30	
16/09/2024 22:00	16.01	0.007716	2.160225	0.0006011	0.164958	0.000000	-	30.80	1.70	0.00	0.30	
16/09/2024 23:00	15.98	0.007721	2.147607	0.0004980	0.138332	0.000000	-	30.60	1.30	0.00	0.30	
17/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
17/09/2024 08:00	16.18	0.010030	2.786138	0.0001979	0.054984	0.000000	-	41.60	0.50	0.00	0.70	
17/09/2024 09:00	16.08	0.009480	2.638758	0.0002371	0.092519	0.000000	-	39.40	0.70	0.00	0.50	
17/09/2024 10:00	16.13	0.009372	2.742257	0.0005920	0.144690	0.000000	-	40.40	1.70	0.00	0.40	
17/09/2024 11:00	16.12	0.009799	2.724318	0.0007846	0.217258	0.000000	-	40.40	2.40	0.00	0.40	
17/09/2024 12:00	16.36	0.007764	2.156758	0.0002331	0.064763	0.000000	-	40.40	0.90	0.00	0.10	
17/09/2024 13:00	16.17	0.010251	2.847453	0.0008039	0.251092	0.000000	-	41.70	2.70	0.00	0.40	
17/09/2024 14:00	16.18	0.010460	2.833271	0.0008219	0.226312	0.000000	-	42.10	2.30	0.00	0.40	
17/09/2024 15:00	16.19	0.010430	2.826050	0.0007172	0.199213	0.000274	0.0761654	42.30	2.10	2.07	0.40	
17/09/2024 16:00	16.17	0.010487	2.813093	0.0006122	0.170056	0.000000	-	42.10	1.90	0.00	0.40	
17/09/2024 17:00	16.16	0.010707	2.874102	0.0005172	0.143676	0.000000	-	42.40	1.40	0.00	0.40	
17/09/2024 18:00	16.13	0.010634	2.853783	0.0004110	0.114156	0.000000	-	42.00	1.20	0.00	0.50	
17/09/2024 19:00	16.09	0.010564	2.831776	0.0004168	0.114089	0.000000	-	41.40	1.00	0.00	0.50	
17/09/2024 20:00	16.06	0.010757	2.887936	0.0002064	0.057340	0.000000	-	41.60	0.50	0.00	0.50	
17/09/2024 21:00	16.03	0.010831	2.909542	0.0001032	0.028670	0.000000	-	41.60	0.30	0.00	0.50	
17/09/2024 22:00	16.01	0.010636	2.871092	0.0001033	0.028706	0.000000	-	41.00	0.20	0.00	0.60	
17/09/2024 23:00	16.01	0.010626	2.851526	-	-	0.000000	-	41.00	0.20	0.00	0.50	
18/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
18/09/2024 08:00	16.13	0.010531	2.925228	0.0000930	0.027499	0.000000	-	43.30	0.20	0.00	0.70	
18/09/2024 09:00	16.05	0.010243	2.845394	0.0001018	0.028277	0.000000	-	40.10	0.10	0.00	0.50	
18/09/2024 10:00	16.09	0.010295	2.858823	0.0001016	0.028219	0.000000	-	40.30	0.40	0.00	0.40	
18/09/2024 11:00	16.05	0.010327	2.845102	0.0004041	0.112261	0.000000	-	40.40	1.10	0.00	0.40	
18/09/2024 12:00	16.24	0.010384	2.834423	0.0001579	0.043899	0.000000	-	54.70	0.50	0.00	0.20	
18/09/2024 13:00	16.12	0.010566	2.934965	0.0005125	0.170143	0.000000	-	41.80	1.60	0.00	0.40	
18/09/2024 14:00	16.15	0.010707	2.874296	0.0006164	0.171234	0.000000	-	42.30	1.80	0.00	0.40	
18/09/2024 15:00	16.15	0.010705	2.873538	0.0005136	0.142658	0.000275	0.0763000	42.30	1.50	2.06	0.40	
18/09/2024 16:00	16.09	0.010432	2.897916	0.0004089	0.113574	0.000000	-	41.00	1.00	0.00	0.60	
18/09/2024 17:00	16.04	0.010346	2.873824	0.0001021	0.028357	0.000000	-	40.30	0.20	0.00	0.70	
18/09/2024 18:00	16.00	0.010366	2.845559	-	-	0.000000	-	40.30	0.10	0.00	0.50	
18/09/2024 19:00	15.95	0.010287	2.857513	-	-	0.000000	-	39.70	0.10	0.00	0.50	
18/09/2024 20:00	15.96	0.010416	2.893464	-	-	0.000000	-	39.80	0.10	0.00	0.50	
18/09/2024 21:00	16.00	0.010423	2.895194	-	-	0.000000	-	40.00	0.10	0.00	0.60	
18/09/2024 22:00	16.01	0.010444	2.901039	-	-	0.000000	-	40.00	0.10	0.00	0.60	
18/09/2024 23:00	16.00	0.010422	2.894348	-	-	0.000000	-	40.10	0.10	0.00	0.70	
19/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/09/2024 08:00	16.14	0.009704	2.695641	0.0005913	0.164254	0.000000	-	40.10	1.70	0.00	1.00	
19/09/2024 09:00	16.09	0.009588	2.652223	0.0007864	0.221215	0.000000	-	38.70	2.40	0.00	0.70	
19/09/2024 10:00	16.12	0.009900	2.722163	0.0010025	0.278482	0.000000	-	39.40	2.80	0.00	0.40	
19/09/2024 11:00	16.14	0.009895	2.717865	0.0010046	0.272644	0.000000	-	40.00	2.90	0.00	0.30	
19/09/2024 12:00	16.35	0.010446	2.857264	0.0004702	0.130618	0.000000	-	57.70	1.60	0.00	0.30	
19/09/2024 13:00	16.19	0.010351	2.875388	0.0011235	0.312089	0.000000	-	41.70	3.30	0.00	0.60	
19/09/2024 14:00	16.18	0.010187	2.824218	0.0011278	0.313209	0.000000	-	40.80	3.30	0.00	0.60	
19/09/2024 15:00	16.18	0.009876	2.771205	0.0011227	0.311849	0.000273	0.0758138	40.80	3.00	2.09	0.40	
19/09/2024 16:00	16.18	0.010344	2.871397	0.0009251	0.256982	0.000000	-	41.20	2.60	0.00	0.60	
19/09/2024 17:00	16.15	0.010127	2.813050	0.0008228	0.228544	0.000000	-	40.10	2.20	0.00	0.60	
19/09/2024 18:00	16.12	0.009880	2.744479	0.0007128	0.197991	0.000000	-	39.40	2.10	0.00	0.60	
19/09/2024 19:00	16.11	0.010547	2.780865	0.0005122	0.170056	0.000000	-	39.70	1.90	0.00	0.60	
19/09/2024 20:00	16.08	0.010217	2.837921	0.0005150	0.143058	0.000000	-	39.70	1.60	0.00	0.60	
19/09/2024 21:00	16.08	0.010345	2.873741	0.0005178	0.143822	0.000000	-	40.30	1.30	0.00	0.60	
19/09/2024 22:00	16.07	0.010457	2.904658	0.0004167	0.115445	0.000000	-	40.40	1.10	0.00	0.80	



Site Name: GULF MLL  
Stack Name: HRS5 STACK2  
Periodically: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	Operation Co	Emission Loading					Emission Concentration for Standardization Comparison					Remark
		CO2	NOx		SOx		Dust	HR502 NOx@7%O2	HR502 SOx@7%O2	HR502 Dust@7%O2	HR502 CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	(g/s)	ppm	ppm	mg/m3	ppm	
21/09/2024 12:00	16.40	0.018330	2.818413	0.0007030	0.155271	0.000000	-	56.70	2.60	0.00	0.10	
21/09/2024 13:00	16.26	0.010040	2.788879	0.0011159	0.365524	0.000000	-	41.40	3.80	0.00	0.40	
21/09/2024 14:00	16.25	0.009953	2.764808	0.0013237	0.367638	0.000000	-	40.50	3.80	0.00	0.40	
21/09/2024 15:00	16.23	0.009920	2.755568	0.0011163	0.310990	0.000271	0.0753861	40.50	3.40	2.08	0.40	
21/09/2024 16:00	15.23	0.009999	2.772691	0.0010230	0.284154	0.000000	-	40.40	3.00	0.00	0.30	
21/09/2024 17:00	16.18	0.009895	2.748712	0.0008158	0.226625	0.000000	-	39.70	2.40	0.00	0.30	
21/09/2024 18:00	16.16	0.009966	2.768362	0.0007137	0.193246	0.000000	-	39.90	2.00	0.00	0.40	
21/09/2024 19:00	16.13	0.009809	2.724724	0.0007076	0.196566	0.000000	-	39.30	1.90	0.00	0.40	
21/09/2024 20:00	16.14	0.010152	2.818981	0.0008141	0.170579	0.000000	-	40.30	1.60	0.00	0.40	
21/09/2024 21:00	16.14	0.010541	2.928040	0.0005128	0.142440	0.000000	-	41.90	1.50	0.00	0.40	
21/09/2024 22:00	16.12	0.010307	2.862954	0.0005121	0.142759	0.000000	-	40.60	1.60	0.00	0.40	
21/09/2024 23:00	16.11	0.010280	2.855637	0.0005108	0.141895	0.000000	-	40.70	1.60	0.00	0.30	
22/09/2024 00:00	16.13	0.009330	2.591616	0.0005371	0.149202	0.000000	-	42.60	1.80	0.00	0.30	
22/09/2024 01:00	16.07	0.008976	2.493365	0.0006725	0.188794	0.000000	-	37.40	2.10	0.00	0.40	
22/09/2024 02:00	16.06	0.008669	2.407950	0.0007597	0.211036	0.000000	-	36.50	2.20	0.00	0.40	
22/09/2024 03:00	16.04	0.008389	2.330332	0.0007530	0.209174	0.000000	-	35.60	2.30	0.00	0.40	
22/09/2024 04:00	16.03	0.007868	2.218787	0.0008335	0.211526	0.000000	-	34.20	2.70	0.00	0.40	
22/09/2024 05:00	16.03	0.007792	2.164540	0.0009188	0.255215	0.000000	-	33.60	2.70	0.00	0.40	
22/09/2024 06:00	16.04	0.007939	2.205272	0.0008354	0.232049	0.000000	-	34.10	2.50	0.00	0.40	
22/09/2024 07:00	16.02	0.006956	1.932116	0.0010557	0.292367	0.000000	-	31.30	3.40	0.00	0.40	
22/09/2024 08:00	16.05	0.008701	1.981448	0.0012086	0.332720	0.000000	-	30.90	4.10	0.00	0.30	
22/09/2024 09:00	16.05	0.006521	1.811387	0.0013825	0.384029	0.000000	-	30.00	4.60	0.00	0.30	
22/09/2024 10:00	16.03	0.007051	1.958580	0.0014269	0.396361	0.000000	-	31.40	4.50	0.00	0.30	
22/09/2024 11:00	16.04	0.007001	1.944793	0.0014188	0.393349	0.000000	-	31.40	4.50	0.00	0.30	
22/09/2024 12:00	16.07	0.008203	1.723040	0.0014671	0.407558	0.000000	-	25.80	4.80	0.00	0.30	
22/09/2024 13:00	16.08	0.007140	1.983346	0.0013424	0.372897	0.000000	-	31.90	4.00	0.00	0.40	
22/09/2024 14:00	16.10	0.007354	2.042704	0.0012676	0.352109	0.000000	-	32.60	4.10	0.00	0.40	
22/09/2024 15:00	16.08	0.007473	2.075853	0.0011753	0.326486	0.000242	0.0871611	32.10	3.80	2.03	0.40	
22/09/2024 16:00	16.07	0.007117	1.975845	0.0011597	0.322138	0.000000	-	32.10	3.60	0.00	0.40	
22/09/2024 17:00	16.18	0.008397	2.471384	0.0005935	0.164857	0.000000	-	43.50	2.00	0.00	0.30	
22/09/2024 18:00	16.08	0.009395	2.609677	0.0004951	0.137532	0.000000	-	38.00	1.30	0.00	0.50	
22/09/2024 19:00	16.05	0.009211	2.558587	0.0003943	0.099331	0.000000	-	37.20	1.20	0.00	0.50	
22/09/2024 20:00	16.07	0.009341	2.584699	0.0003976	0.098272	0.000000	-	37.70	1.00	0.00	0.50	
22/09/2024 21:00	16.05	0.009417	2.615885	0.0003970	0.110289	0.000000	-	37.80	1.00	0.00	0.40	
22/09/2024 22:00	16.03	0.009387	2.607607	0.0003958	0.099939	0.000000	-	37.80	1.10	0.00	0.40	
22/09/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
23/09/2024 08:00	16.16	0.009700	2.914444	0.0004952	0.137823	0.000000	-	41.90	1.70	0.00	0.60	
23/09/2024 09:00	16.23	0.009709	2.868318	0.0004048	0.168055	0.000000	-	39.90	1.80	0.00	0.40	
23/09/2024 10:00	16.18	0.009887	2.746475	0.0007029	0.195243	0.000000	-	40.40	2.10	0.00	0.40	
23/09/2024 11:00	16.19	0.009898	2.749522	0.0007928	0.220168	0.000000	-	41.00	2.50	0.00	0.40	
23/09/2024 12:00	16.38	0.010481	2.911295	0.0003929	0.108414	0.000000	-	57.20	1.60	0.00	0.10	
23/09/2024 13:00	16.22	0.010176	2.826664	0.0010041	0.278918	0.000000	-	41.90	2.90	0.00	0.30	
23/09/2024 14:00	16.24	0.010107	2.807636	0.0010117	0.281027	0.000000	-	41.30	2.90	0.00	0.30	
23/09/2024 15:00	16.24	0.010147	2.818532	0.0007109	0.197482	0.000272	0.0754444	41.30	2.00	2.09	0.30	
23/09/2024 16:00	16.18	0.010312	2.864417	-	0.000000	-	-	41.30	0.00	0.00	0.30	
23/09/2024 17:00	16.12	0.010707	2.974102	-	0.000000	-	-	41.80	0.00	0.00	0.30	
23/09/2024 18:00	16.08	0.010541	2.928040	-	0.000000	-	-	41.30	0.00	0.00	0.30	
23/09/2024 19:00	16.04	0.010647	2.957546	-	0.000000	-	-	41.10	0.00	0.00	0.30	
23/09/2024 20:00	16.04	0.010511	2.905741	-	0.000000	-	-	40.70	0.00	0.00	0.30	
23/09/2024 21:00	16.03	0.010579	2.938732	-	0.000000	-	-	40.60	0.00	0.00	0.30	
23/09/2024 22:00	16.03	0.010460	2.905510	-	0.000000	-	-	40.20	0.00	0.00	0.30	
23/09/2024 23:00	16.01	0.010454	2.903853	-	0.000000	-	-	40.40	0.00	0.00	0.30	
24/09/2024 00:00	16.01	0.009228	2.633342	-	0.000000	-	-	40.70	0.00	0.00	0.20	
24/09/2024 01:00	15.96	0.008942	2.483854	-	0.000000	-	-	36.50	0.00	0.00	0.40	
24/09/2024 02:00	15.96	0.009055	2.515283	-	0.000000	-	-	36.90	0.00	0.00	0.40	
24/09/2024 03:00	15.93	0.008462	2.350432	-	0.000000	-	-	34.90	0.00	0.00	0.30	
24/09/2024 04:00	15.93	0.008387	2.309444	-	0.000000	-	-	34.70	0.00	0.00	0.40	
24/09/2024 05:00	15.93	0.008371	2.325148	-	0.000000	-	-	34.60	0.00	0.00	0.70	
24/09/2024 06:00	15.93	0.008382	2.328388	-	0.000000	-	-	34.70	0.00	0.00	0.60	
24/09/2024 07:00	16.05	0.009426	2.618227	-	0.000000	-	-	44.00	0.00	0.00	0.50	
24/09/2024 08:00	16.00	0.010063	2.795370	-	0.000000	-	-	39.20	0.00	0.00	0.40	
24/09/2024 09:00	16.01	0.010115	2.809794	-	0.000000	-	-	39.20	0.00	0.00	0.30	
24/09/2024 10:00	16.00	0.010555	2.958804	-	0.000000	-	-	40.90	0.00	0.00	0.30	
24/09/2024 11:00	15.98	0.010214	2.837248	-	0.000000	-	-	39.50	0.00	0.00	0.30	
24/09/2024 12:00	16.12	0.009710	2.892188	-	0.000000	-	-	49.20	0.00	0.00	0.20	
24/09/2024 13:00	16.00	0.010165	2.823497	-	0.000000	-	-	39.20	0.00	0.00	0.30	
24/09/2024 14:00	16.01	0.010262	2.850495	-	0.000000	-	-	39.40	0.00	0.00	0.30	
24/09/2024 15:00	16.02	0.010120	2.811237	-	0.000273	0.0757944	-	39.40	0.00	1.99	0.30	
24/09/2024 16:00	16.03	0.010209	2.819864	-	0.000000	-	-	39.70	0.00	0.00	0.40	
24/09/2024 17:00	16.04	0.010407	2.890772	-	0.000000	-	-	40.30	0.00	0.00	0.40	
24/09/2024 18:00	16.03	0.010270	2.852674	-	0.000000	-	-	39.80	0.00	0.00	0.30	
24/09/2024 19:00	16.03	0.010238	2.843957	-	0.000000	-	-	39.60	0.00	0.00	0.40	
24/09/2024 20:00	16.02	0.010091	2.803037	-	0.000000	-	-	39.00	0.00	0.00	0.50	
24/09/2024 21:00	15.99	0.010176	2.826382	-	0.000000	-	-	39.00	0.00	0.00	0.40	
24/09/2024 22:00	15.97	0.010127	2.813060	-	0.000000	-	-	38.60	0.00	0.00	0.70	
24/09/2024 23:00	15.96	0.010284	2.848321	-	0.000000	-	-	39.30	0.00	0.00	0.40	
25/09/2024 00:00	16.02	0.009247	2.648474	-	0.000000	-	-	41.30	0.00	0.00	0.50	
25/09/2024 01:00	15.96	0.008375	2.326444	-	0.000000	-	-	34.80	0.00	0.00	0.50	
25/09/2024 02:00	15.94	0.0										



Site Name: GULF NLL  
Stack Name: HRSO STACK2  
Periodicity: 01/10/2024 00:00-30/10/2024 23:59

Date & Time	OZ	Operation Coz		Emission Leading				Emission Concentration for Standardization Comparison				Remark
		NOx	SOx	Dust		HRSG2 NOx@7%O2	HRSG2 SOx@7%O2	HRSG2 Du@67%O2	HRSG2 CO@7%O2			
				Ten	(g/s)					Ten	(g/s)	
26/09/2024 15:00	16.11	0.009923	2.756472	-	-	0.000273	0.0759584	39.10	2.03	0.60		
26/09/2024 16:00	16.08	0.009861	2.683490	-	-	0.000000	-	38.00	0.00	0.60		
26/09/2024 17:00	16.05	0.009708	2.636597	-	-	0.000000	-	37.80	0.00	0.70		
26/09/2024 18:00	16.06	0.009602	2.667268	-	-	0.000000	-	37.60	0.00	0.70		
26/09/2024 19:00	16.06	0.009602	2.667268	-	-	0.000000	-	37.50	0.00	0.70		
26/09/2024 20:00	16.02	0.009527	2.674115	-	-	0.000000	-	37.20	0.00	0.60		
26/09/2024 21:00	16.01	0.009446	2.685068	-	-	0.000000	-	37.10	0.00	0.80		
26/09/2024 22:00	16.00	0.009583	2.661854	-	-	0.000000	-	37.00	0.00	0.90		
26/09/2024 23:00	15.99	0.009422	2.617108	-	-	0.000000	-	36.60	0.00	0.70		
27/09/2024 00:00	16.01	0.008598	2.388237	-	-	0.000000	-	33.90	0.00	0.70		
27/09/2024 01:00	15.97	0.008259	2.242404	-	-	0.000000	-	32.80	0.00	1.10		
27/09/2024 02:00	15.98	0.008571	2.380733	-	-	0.000000	-	34.40	0.00	0.90		
27/09/2024 03:00	15.95	0.007766	2.157297	-	-	0.000000	-	32.10	0.00	0.90		
27/09/2024 04:00	15.96	0.007622	2.117109	-	-	0.000000	-	31.50	0.00	1.60		
27/09/2024 05:00	15.96	0.008026	2.226022	-	-	0.000000	-	32.80	0.00	0.00		
27/09/2024 06:00	15.96	0.007724	2.145459	-	-	0.000000	-	31.80	0.00	1.00		
27/09/2024 07:00	16.02	0.007870	2.186176	-	-	0.000000	-	36.20	0.00	0.70		
27/09/2024 08:00	16.00	0.008463	2.350777	-	-	0.000000	-	33.60	0.00	0.70		
27/09/2024 09:00	16.04	0.008581	2.402954	-	-	0.000000	-	34.50	0.00	0.60		
27/09/2024 10:00	16.11	0.008865	2.482599	0.0001003	0.027855	0.000000	-	35.80	0.00	0.50		
27/09/2024 11:00	16.15	0.009053	2.514761	0.0001999	0.055536	0.000000	-	36.90	0.50	0.00		
27/09/2024 12:00	16.35	0.008921	2.728147	-	-	0.000000	-	53.40	0.00	0.20		
27/09/2024 13:00	16.15	0.009022	2.566200	0.0000996	0.027674	0.000000	-	36.10	0.20	0.00		
27/09/2024 14:00	16.15	0.009212	2.558879	-	-	0.000000	-	36.80	0.00	0.40		
27/09/2024 15:00	16.11	0.009447	2.624247	-	-	0.000275	0.0762806	37.00	0.00	2.03		
27/09/2024 16:00	16.08	0.009347	2.595444	-	-	0.000000	-	36.50	0.00	0.60		
27/09/2024 17:00	16.08	0.009507	2.640704	-	-	0.000000	-	37.20	0.00	0.70		
27/09/2024 18:00	16.08	0.009499	2.639692	-	-	0.000000	-	37.10	0.00	0.00		
27/09/2024 19:00	16.04	0.009304	2.584498	-	-	0.000000	-	36.40	0.00	0.50		
27/09/2024 20:00	16.03	0.009342	2.595117	-	-	0.000000	-	36.20	0.00	0.50		
27/09/2024 21:00	16.02	0.009393	2.608068	-	-	0.000000	-	36.30	0.00	0.60		
27/09/2024 22:00	16.01	0.009498	2.635619	-	-	0.000000	-	36.40	0.00	0.00		
27/09/2024 23:00	16.03	0.009366	2.601754	-	-	0.000000	-	36.30	0.00	0.00		
28/09/2024 00:00	16.04	0.008880	2.411002	-	-	0.000000	-	37.80	0.00	0.50		
28/09/2024 01:00	16.00	0.008959	2.238526	-	-	0.000000	-	33.10	0.00	0.70		
28/09/2024 02:00	16.02	0.008669	2.408149	-	-	0.000000	-	34.60	0.00	0.70		
28/09/2024 03:00	15.99	0.009234	2.287259	-	-	0.000000	-	33.60	0.00	0.00		
28/09/2024 04:00	16.00	0.008600	2.333384	-	-	0.000000	-	33.80	0.00	1.00		
28/09/2024 05:00	16.01	0.008191	2.275213	-	-	0.000000	-	33.40	0.00	0.80		
28/09/2024 06:00	16.00	0.008026	2.229992	-	-	0.000000	-	32.80	0.00	0.80		
28/09/2024 07:00	16.08	0.009247	2.280969	-	-	0.000000	-	38.30	0.00	0.00		
28/09/2024 08:00	16.08	0.008601	2.393042	-	-	0.000000	-	34.90	0.00	0.70		
28/09/2024 09:00	16.10	0.008456	2.349327	-	-	0.000000	-	34.30	0.10	0.60		
28/09/2024 10:00	16.13	0.008715	2.420723	-	-	0.000000	-	34.80	0.00	0.50		
28/09/2024 11:00	16.10	0.008705	2.418130	-	-	0.000000	-	34.90	0.00	0.00		
28/09/2024 12:00	16.33	0.009330	2.735650	-	-	0.000000	-	54.00	0.00	0.10		
28/09/2024 13:00	16.12	0.009442	2.483812	-	-	0.000000	-	35.60	0.00	0.40		
28/09/2024 14:00	16.11	0.009317	2.310327	-	-	0.000000	-	33.80	0.00	0.00		
28/09/2024 15:00	16.14	0.009438	2.399400	-	-	0.000268	0.0743944	35.10	0.00	2.04		
28/09/2024 16:00	16.17	0.009784	2.440028	-	-	0.000000	-	35.80	0.00	0.50		
28/09/2024 17:00	16.15	0.009012	2.503357	-	-	0.000000	-	36.20	0.00	0.00		
28/09/2024 18:00	16.13	0.008979	2.494097	-	-	0.000000	-	35.90	0.00	0.40		
28/09/2024 19:00	16.10	0.008767	2.435147	-	-	0.000000	-	34.90	0.00	0.00		
28/09/2024 20:00	16.09	0.008983	2.414854	-	-	0.000000	-	34.40	0.00	0.40		
28/09/2024 21:00	16.09	0.008720	2.423317	-	-	0.000000	-	34.40	0.00	0.60		
28/09/2024 22:00	16.07	0.008987	2.385311	-	-	0.000000	-	34.00	0.00	0.70		
28/09/2024 23:00	16.05	0.008601	2.361260	-	-	0.000000	-	33.80	0.00	0.00		
29/09/2024 00:00	16.09	0.008926	2.228279	-	-	0.000000	-	36.40	0.00	0.60		
29/09/2024 01:00	16.05	0.007338	2.038252	-	-	0.000000	-	30.80	0.00	0.90		
29/09/2024 02:00	16.03	0.007551	2.097426	-	-	0.000000	-	31.10	0.00	0.80		
29/09/2024 03:00	16.04	0.007257	2.015879	-	-	0.000000	-	30.40	0.00	0.00		
29/09/2024 04:00	16.03	0.006857	1.904626	-	-	0.000000	-	29.20	0.00	0.70		
29/09/2024 05:00	16.01	0.006839	1.898928	-	-	0.000000	-	29.00	0.00	0.80		
29/09/2024 06:00	16.01	0.006481	1.855783	-	-	0.000000	-	28.50	0.00	0.60		
29/09/2024 07:00	15.99	0.005509	1.529963	0.0001762	0.048934	0.000000	-	24.70	0.60	0.00		
29/09/2024 08:00	16.06	0.005780	1.666095	0.000188	0.144055	0.000000	-	24.50	1.80	0.00		
29/09/2024 09:00	16.12	0.005633	1.544468	0.0007925	0.220119	0.000000	-	25.80	2.60	0.00		
29/09/2024 10:00	16.14	0.005616	1.560018	0.0008779	0.243872	0.000000	-	25.80	2.90	0.00		
29/09/2024 11:00	16.15	0.005444	1.512136	0.0008467	0.262989	0.000000	-	25.90	3.10	0.00		
29/09/2024 12:00	16.14	0.005277	1.455917	0.0006638	0.239445	0.000000	-	24.70	3.10	0.00		
29/09/2024 13:00	16.12	0.005416	1.504501	0.0005929	0.192489	0.000000	-	25.20	2.30	0.00		
29/09/2024 14:00	16.14	0.005356	1.487557	0.0005065	0.168471	0.000000	-	25.10	2.00	0.00		
29/09/2024 15:00	16.15	0.005296	1.471247	0.0005069	0.161573	0.000232	0.0644000	25.00	2.00	0.30		
29/09/2024 16:00	16.10	0.005445	1.567925	0.0005284	0.147045	0.000000	-	25.80	1.60	0.00		
29/09/2024 17:00	16.07	0.005194	1.453346	0.0003563	0.098974	0.000000	-	26.80	1.30	0.00		
29/09/2024 18:00	16.12	0.010934	3.099582	-	-	0.000000	-	40.50	0.00	0.00		
29/09/2024 19:00	16.11	0.011009	3.058044	-	-	0.000000	-	40.80	0.00	0.40		
29/09/2024 20:00	16.12	0.011103	3.084185	-	-	0.000000	-	41.20	0.00	0.40		
29/09/2024 21:00	16.10	0.011046	3.080360	-	-	0.000000	-	40.80	0.00	0.50		
29/09/2024 22:00												



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:00-31/10/2024 23:59

Date & Time	Operation Co	Emission Loading				Emission Concentration for Standardization Comparison				Remark
		O2		NOx		SOx		Dust		
		%	Ton	(g/s)	(g/s)	(g/s)	(g/s)	ppm	ppm	
01/10/2024 00:00	14.83	0.007116	1.978488	-	-	0.000265	0.0734722	32.70	0.00	2.29
01/10/2024 01:00	14.82	0.006954	1.903774	-	-	0.000213	0.0590889	31.30	0.00	1.83
01/10/2024 02:00	14.81	0.006743	1.873160	-	-	0.000212	0.0590000	30.80	0.00	1.83
01/10/2024 03:00	14.80	0.006611	1.836373	-	-	0.000238	0.0669500	30.20	0.00	2.05
01/10/2024 04:00	14.79	0.006598	1.832913	-	-	0.000239	0.0664250	30.00	0.00	2.05
01/10/2024 05:00	14.80	0.006589	1.846885	-	-	0.000266	0.0738056	30.40	0.00	2.28
01/10/2024 06:00	14.79	0.006584	1.828774	-	-	0.000265	0.0736389	30.10	0.00	2.27
01/10/2024 07:00	14.80	0.006436	1.787895	-	-	0.000265	0.0734667	29.30	0.00	2.28
01/10/2024 08:00	14.81	0.006744	1.878804	-	-	0.000266	0.0737272	30.70	0.00	2.28
01/10/2024 09:00	14.81	0.006036	1.678539	-	-	0.000278	0.0771833	29.00	0.00	2.51
01/10/2024 10:00	14.82	0.005371	1.491922	-	-	0.000246	0.0683641	26.50	0.00	2.29
01/10/2024 11:00	14.83	0.005395	1.498669	-	-	0.000245	0.0689833	26.80	0.00	2.29
01/10/2024 12:00	14.98	0.005878	1.632765	-	-	0.000204	0.0567222	35.50	0.00	2.35
01/10/2024 13:00	14.89	0.006326	1.757302	-	-	0.000237	0.0657778	32.90	0.00	2.31
01/10/2024 14:00	14.85	0.006282	1.745089	-	-	0.000255	0.0708056	30.00	0.00	2.30
01/10/2024 15:00	14.85	0.006494	1.804018	-	-	0.000256	0.0710278	31.00	0.00	2.30
01/10/2024 16:00	14.85	0.006389	1.808148	-	-	0.000209	0.0579556	32.10	0.00	1.84
01/10/2024 17:00	14.83	0.006497	1.800459	-	-	0.000206	0.0571333	30.60	0.00	1.83
01/10/2024 18:00	14.81	0.006343	1.761880	-	-	0.000204	0.0567556	30.20	0.00	1.83
01/10/2024 19:00	14.80	0.006340	1.761170	-	-	0.000204	0.0567333	30.00	0.00	1.82
01/10/2024 20:00	14.80	0.006318	1.754961	-	-	0.000229	0.0636000	30.00	0.00	2.05
01/10/2024 21:00	14.80	0.006380	1.772207	-	-	0.000206	0.0570889	30.00	0.00	1.82
01/10/2024 22:00	14.79	0.006259	1.738582	-	-	0.000205	0.0568867	29.60	0.00	1.82
01/10/2024 23:00	14.78	0.006640	1.844390	-	-	0.000234	0.0648750	30.80	0.00	2.04
02/10/2024 00:00	14.81	0.007006	1.946095	-	-	0.000241	0.0681750	31.70	0.00	2.10
02/10/2024 01:00	14.81	0.006691	1.808615	-	-	0.000241	0.0664500	30.30	0.00	2.05
02/10/2024 02:00	14.81	0.006561	1.822451	-	-	0.000213	0.0591556	29.80	0.00	1.83
02/10/2024 03:00	14.81	0.006501	1.805821	-	-	0.000213	0.0590667	29.60	0.00	1.83
02/10/2024 04:00	14.82	0.006483	1.792605	-	-	0.000213	0.0590889	29.50	0.00	1.83
02/10/2024 05:00	14.82	0.006563	1.820397	-	-	0.000213	0.0590889	29.80	0.00	1.83
02/10/2024 06:00	14.79	0.006349	1.763485	-	-	0.000213	0.0590444	29.00	0.00	1.82
02/10/2024 07:00	14.81	0.006463	1.795301	-	-	0.000240	0.0658750	29.40	0.00	2.05
02/10/2024 08:00	14.81	0.006463	1.795301	-	-	0.000239	0.0637550	30.30	0.00	2.05
02/10/2024 09:00	14.82	0.006074	1.687158	-	-	0.000229	0.0633500	29.00	0.00	2.06
02/10/2024 10:00	14.84	0.005459	1.516401	-	-	0.000223	0.0620000	26.80	0.00	2.06
02/10/2024 11:00	14.85	0.005430	1.508394	-	-	0.000196	0.0543556	27.10	0.00	1.84
02/10/2024 12:00	15.03	0.006077	1.680743	-	-	0.000182	0.0503500	38.00	0.00	1.80
02/10/2024 13:00	14.91	0.006189	1.719136	-	-	0.000210	0.0583250	32.80	0.00	2.09
02/10/2024 14:00	14.86	0.006154	1.709348	-	-	0.000201	0.0559111	29.90	0.00	1.84
02/10/2024 15:00	14.85	0.006154	1.709348	-	-	0.000226	0.0629000	29.80	0.00	2.07
02/10/2024 16:00	14.85	0.006145	1.708916	-	-	0.000228	0.0632000	29.70	0.00	2.07
02/10/2024 17:00	14.84	0.006481	1.800723	-	-	0.000233	0.0647500	30.40	0.00	2.06
02/10/2024 18:00	14.82	0.006380	1.772207	-	-	0.000231	0.0642250	30.20	0.00	2.06
02/10/2024 19:00	14.82	0.006463	1.795301	-	-	0.000232	0.0648750	30.40	0.00	2.06
02/10/2024 20:00	14.81	0.006440	1.786024	-	-	0.000233	0.0647250	30.20	0.00	2.05
02/10/2024 21:00	14.81	0.006496	1.804490	-	-	0.000234	0.0649000	30.30	0.00	2.05
02/10/2024 22:00	14.80	0.006493	1.803705	-	-	0.000234	0.0648750	30.20	0.00	2.05
02/10/2024 23:00	14.78	0.006730	1.884907	-	-	0.000261	0.0725278	31.00	0.00	2.27
03/10/2024 00:00	14.82	0.006913	1.920241	-	-	0.000241	0.0675500	31.30	0.00	2.06
03/10/2024 01:00	14.81	0.006538	1.818012	-	-	0.000214	0.0594000	29.70	0.00	1.83
03/10/2024 02:00	14.81	0.006411	1.780715	-	-	0.000240	0.0645500	29.10	0.00	2.05
03/10/2024 03:00	14.80	0.006291	1.747624	-	-	0.000239	0.0633500	28.80	0.00	2.05
03/10/2024 04:00	14.80	0.006469	1.791742	-	-	0.000218	0.0584667	28.50	0.00	1.82
03/10/2024 05:00	14.81	0.007126	1.979192	-	-	0.000239	0.0662667	29.00	0.00	1.83
03/10/2024 06:00	14.81	0.006830	1.897100	-	-	0.000230	0.0640222	28.70	0.00	1.83
03/10/2024 07:00	14.80	0.006658	1.849491	-	-	0.000228	0.0634222	28.20	0.00	1.82
03/10/2024 08:00	14.78	0.006970	1.946097	-	-	0.000255	0.0707000	29.80	0.00	2.04
03/10/2024 09:00	14.76	0.006829	1.619234	-	-	0.000227	0.0629750	27.80	0.00	2.04
03/10/2024 10:00	14.73	0.005000	1.389988	-	-	0.000188	0.0528667	25.60	0.00	1.80
03/10/2024 11:00	14.74	0.004768	1.324258	-	-	0.000228	0.0634167	25.10	0.00	2.26
03/10/2024 12:00	15.11	0.007506	2.085109	-	-	0.000191	0.0530278	50.70	0.00	2.40
03/10/2024 13:00	14.90	0.006421	1.783715	-	-	0.000220	0.0611667	36.30	0.00	2.32
03/10/2024 14:00	14.81	0.005532	1.536574	-	-	0.000217	0.0602500	27.80	0.00	2.05
03/10/2024 15:00	14.84	0.005811	1.614207	-	-	0.000222	0.0617750	28.70	0.00	2.06
03/10/2024 16:00	14.82	0.005774	1.600236	-	-	0.000218	0.0590500	28.60	0.00	2.06
03/10/2024 17:00	14.85	0.006055	1.681848	-	-	0.000228	0.0633500	29.20	0.00	2.07
03/10/2024 18:00	14.82	0.006131	1.703118	-	-	0.000229	0.0636500	29.20	0.00	2.06
03/10/2024 19:00	14.80	0.006052	1.681185	-	-	0.000203	0.0562889	29.00	0.00	



Site Name: GULF NLL  
Stack Name: HRS5 STACK1  
Periodically: 01/10/2024 00:00:31/10/2024 23:59

Date & Time	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark				
		O <sub>2</sub>		NO <sub>x</sub>		SO <sub>x</sub>		Dust		HRSG1_NO <sub>x</sub> @7%O <sub>2</sub>		HRSG1_SO <sub>x</sub> @7%O <sub>2</sub>			HRSG1_Dust (7%O <sub>2</sub> )		HRSG1_CO@7%O <sub>2</sub>	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm		ppm	ppm	ppm	
06/10/2024 03:00	14.78	0.005883	1.634197	-	-	0.000239	0.0662500	26.70	0.00	2.04	2.20	2.20	2.20					
06/10/2024 04:00	14.78	0.005876	1.632347	-	-	0.000238	0.0661750	26.70	0.00	2.04	2.20	2.20	2.20					
06/10/2024 05:00	14.79	0.005892	1.636663	-	-	0.000212	0.0589778	26.80	0.00	1.82	2.30	2.30	2.30					
06/10/2024 06:00	14.79	0.005831	1.619738	-	-	0.000212	0.0588467	26.60	0.00	1.82	2.30	2.30	2.30					
06/10/2024 07:00	14.79	0.005827	1.618513	-	-	0.000238	0.0661750	26.70	0.00	2.05	2.30	2.30	2.30					
06/10/2024 08:00	14.83	0.006010	1.694241	-	-	0.000240	0.0665500	27.50	0.00	2.06	2.20	2.20	2.20					
06/10/2024 09:00	14.85	0.006198	1.721189	-	-	0.000239	0.0664000	28.50	0.00	2.07	2.20	2.20	2.20					
06/10/2024 10:00	14.86	0.006275	1.742014	-	-	0.000238	0.0661750	28.90	0.00	2.07	2.20	2.20	2.20					
06/10/2024 11:00	14.87	0.006289	1.749547	-	-	0.000237	0.0659000	29.20	0.00	2.07	2.20	2.20	2.20					
06/10/2024 12:00	14.88	0.006514	1.809443	-	-	0.000264	0.0734167	30.20	0.00	2.31	2.30	2.30	2.30					
06/10/2024 13:00	14.85	0.006493	1.856483	-	-	0.000265	0.0726319	30.70	0.00	2.30	2.30	2.30	2.30					
06/10/2024 14:00	14.84	0.006701	1.881385	-	-	0.000239	0.0664500	30.70	0.00	2.06	2.30	2.30	2.30					
06/10/2024 15:00	14.84	0.005156	1.432184	-	-	0.000184	0.0511250	30.70	0.00	2.06	2.30	2.30	2.30					
06/10/2024 16:00	15.97	0.004127	1.146384	-	-	0.000147	0.0499250	30.70	0.00	2.54	226.40	2.54	226.40					
06/10/2024 17:00	14.78	0.008010	2.225059	-	-	0.000213	0.0591333	36.40	0.00	1.82	2.30	2.30	2.30					
06/10/2024 18:00	14.76	0.007998	2.221713	-	-	0.000213	0.0590444	36.30	0.00	1.81	2.40	2.40	2.40					
06/10/2024 19:00	14.73	0.006473	1.788118	-	-	0.000194	0.0538444	31.90	0.00	1.80	2.40	2.40	2.40					
06/10/2024 20:00	14.74	0.006470	1.797245	-	-	0.000195	0.0542000	31.90	0.00	1.81	2.40	2.40	2.40					
06/10/2024 21:00	14.74	0.006505	1.807923	-	-	0.000195	0.0541111	32.00	0.00	1.81	2.40	2.40	2.40					
06/10/2024 22:00	14.78	0.006410	1.780658	-	-	0.000165	0.0458819	37.60	0.00	1.82	2.30	2.30	2.30					
06/10/2024 23:00	14.67	0.005788	1.610470	-	-	0.000171	0.0475556	32.20	0.00	1.78	2.50	2.50	2.50					
07/10/2024 00:00	14.67	0.005480	1.522160	-	-	0.000170	0.0472444	30.60	0.00	1.78	2.60	2.60	2.60					
07/10/2024 01:00	14.66	0.005418	1.504835	-	-	0.000172	0.0477556	29.80	0.00	1.78	2.40	2.40	2.40					
07/10/2024 02:00	14.66	0.005287	1.468504	-	-	0.000172	0.0476667	29.30	0.00	1.78	2.50	2.50	2.50					
07/10/2024 03:00	14.68	0.005193	1.442462	-	-	0.000167	0.0464667	29.50	0.00	1.79	2.40	2.40	2.40					
07/10/2024 04:00	14.68	0.005190	1.441804	-	-	0.000168	0.0468000	29.30	0.00	1.79	2.50	2.50	2.50					
07/10/2024 05:00	14.67	0.005243	1.456259	-	-	0.000169	0.0469111	29.30	0.00	1.81	2.40	2.40	2.40					
07/10/2024 06:00	14.66	0.005223	1.450704	-	-	0.000170	0.0470819	29.20	0.00	1.78	2.40	2.40	2.40					
07/10/2024 07:00	14.72	0.005182	1.438489	-	-	0.000166	0.0460222	30.00	0.00	1.80	2.40	2.40	2.40					
07/10/2024 08:00	14.77	0.005271	1.464140	-	-	0.000165	0.0467778	31.00	0.00	1.81	2.30	2.30	2.30					
07/10/2024 09:00	14.69	0.006056	1.692292	-	-	0.000205	0.0570750	32.80	0.00	2.08	2.20	2.20	2.20					
07/10/2024 10:00	14.85	0.005941	1.650356	-	-	0.000245	0.0680000	29.70	0.00	2.30	2.30	2.30	2.30					
07/10/2024 11:00	14.87	0.006060	1.693217	-	-	0.000244	0.0677778	30.30	0.00	2.31	2.30	2.30	2.30					
07/10/2024 12:00	15.03	0.006315	1.784146	-	-	0.000202	0.0561667	39.50	0.00	2.37	2.00	2.00	2.00					



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:00-31/10/2024 23:59

Date & Time	Operation Co	Emission Loading				Emission Concentration for Standardization Comparison						Remark	
		O2	NOx		SOx	Dust	HRSG1_NOx@7%O2		HRSG1_SOx@7%O2		HRSG1_Dust@7%O2		
			Ton	(g/s)			Ton	(g/s)	ppm	ppm	mg/m <sup>3</sup>		ppm
11/10/2024 06:00	14.70	0.004818	1.357168	-	-	0.000251	0.0695361	25.60	0.00	0.00	2.47	2.50	
11/10/2024 07:00	14.67	0.004803	1.334272	-	-	0.000232	0.0644722	26.90	0.00	0.00	2.45	2.40	
11/10/2024 08:00	14.77	0.005113	1.420387	-	-	0.000226	0.0628138	30.20	0.00	0.00	2.49	2.20	
11/10/2024 09:00	14.86	0.005648	1.568771	-	-	0.000248	0.0619639	30.90	0.00	0.00	2.54	2.20	
11/10/2024 10:00	14.84	0.005327	1.489217	-	-	0.000267	0.0742194	26.80	0.00	0.00	2.52	2.30	
11/10/2024 11:00	14.84	0.005324	1.478794	-	-	0.000264	0.0732722	27.10	0.00	0.00	2.52	2.30	
11/10/2024 12:00	15.06	0.006249	1.735928	-	-	0.000220	0.0611417	39.60	0.00	0.00	2.62	2.00	
11/10/2024 13:00	14.94	0.006234	1.731564	-	-	0.000265	0.0707972	33.40	0.00	0.00	2.57	2.20	
11/10/2024 14:00	14.87	0.006228	1.730027	-	-	0.000278	0.0721138	30.20	0.00	0.00	2.54	2.30	
11/10/2024 15:00	14.82	0.006149	1.708120	-	-	0.000260	0.0693056	29.90	0.00	0.00	2.29	2.30	
11/10/2024 16:00	14.82	0.006142	1.706066	-	-	0.000199	0.0553778	29.80	0.00	0.00	1.83	2.30	
11/10/2024 17:00	14.81	0.006216	1.726678	-	-	0.000200	0.0556222	30.10	0.00	0.00	1.83	2.20	
11/10/2024 18:00	14.76	0.006124	1.701195	-	-	0.000225	0.0626005	29.40	0.00	0.00	1.81	2.20	
11/10/2024 19:00	14.75	0.006169	1.710811	-	-	0.000174	0.0482222	29.70	0.00	0.00	1.58	2.30	
11/10/2024 20:00	14.76	0.006226	1.728437	-	-	0.000201	0.0552111	29.80	0.00	0.00	1.81	2.30	
11/10/2024 21:00	14.76	0.006171	1.714281	-	-	0.000225	0.0624005	29.60	0.00	0.00	2.04	2.30	
11/10/2024 22:00	14.76	0.006124	1.701195	-	-	0.000225	0.0626005	29.40	0.00	0.00	2.04	2.30	
11/10/2024 23:00	14.80	0.006277	1.743474	-	-	0.000193	0.0507778	33.50	0.00	0.00	1.82	2.20	
12/10/2024 00:00	14.70	0.005147	1.429758	-	-	0.000184	0.0510819	26.60	0.00	0.00	1.79	2.40	
12/10/2024 01:00	14.70	0.005007	1.390713	-	-	0.000195	0.0514222	25.80	0.00	0.00	1.79	2.30	
12/10/2024 02:00	14.71	0.004908	1.363214	-	-	0.000196	0.0517566	25.20	0.00	0.00	1.80	2.30	
12/10/2024 03:00	14.70	0.004877	1.354716	-	-	0.000184	0.0505978	25.30	0.00	0.00	1.79	2.40	
12/10/2024 04:00	14.69	0.004754	1.320485	-	-	0.000180	0						



Site Name: GULF NLL  
Stack Name: HRSO STACK1  
Periodically: 01/10/2024 00:00 31/10/2024 23:59

Date & Time	Operation Code	Emission Loading										Emission Concentration for Standardization Comparison				Remark	
		O <sub>2</sub>		NO <sub>x</sub>		SO <sub>x</sub>		Dust		HRSO1_NOx@7%O <sub>2</sub>		HRSO1_SOx@7%O <sub>2</sub>		HRSO1_Dust (7%O <sub>2</sub> )			
		%	Ton	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	(g/s)	ppm	ppm	ppm	ppm	mg/m3	ppm		
16/10/2024 09:00	14.83	0.005594	1.409271	-	-	0.000231	0.0040750	24.50	0.00	0.00	0.00	2.06	2.20				
16/10/2024 10:00	14.84	0.005076	1.397978	-	-	0.000227	0.0030250	24.50	0.00	0.00	0.00	2.06	2.20				
16/10/2024 11:00	15.37	0.005033	1.397978	-	-	0.000225	0.0030250	24.50	0.00	0.00	0.00	2.06	2.20				
16/10/2024 12:00	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	
16/10/2024 13:00	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	
16/10/2024 14:00	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	
16/10/2024 15:00	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	CEM Failure	
16/10/2024 16:00	14.80	0.008309	2.308048	-	-	CEM Failure	CEM Failure	41.20	0.00	CEM Failure	0.00	CEM Failure	2.40				
16/10/2024 17:00	14.81	0.008393	2.331262	-	-	CEM Failure	CEM Failure	41.40	0.00	CEM Failure	0.00	CEM Failure	2.30				
16/10/2024 18:00	14.81	0.008442	2.348028	-	-	CEM Failure	CEM Failure	41.70	0.00	CEM Failure	0.00	CEM Failure	2.30				
16/10/2024 19:00	14.80	0.008403	2.334116	-	-	CEM Failure	CEM Failure	41.50	0.00	CEM Failure	0.00	CEM Failure	2.40				
16/10/2024 20:00	14.80	0.008410	2.336018	-	-	CEM Failure	CEM Failure	41.40	0.00	CEM Failure	0.00	CEM Failure	2.50				
16/10/2024 21:00	14.79	0.008483	2.356504	-	-	CEM Failure	CEM Failure	41.70	0.00	CEM Failure	0.00	CEM Failure	2.40				
16/10/2024 22:00	14.79	0.008466	2.351723	-	-	CEM Failure	CEM Failure	41.60	0.00	CEM Failure	0.00	CEM Failure	2.50				
16/10/2024 23:00	14.79	0.008755	2.432074	-	-	CEM Failure	CEM Failure	42.30	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 00:00	14.80	0.008162	2.451695	-	-	CEM Failure	CEM Failure	42.00	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 01:00	14.80	0.008594	2.387317	-	-	CEM Failure	CEM Failure	40.80	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 02:00	14.79	0.008492	2.398793	-	-	CEM Failure	CEM Failure	40.30	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 03:00	14.79	0.008560	2.374911	-	-	CEM Failure	CEM Failure	40.50	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 04:00	14.79	0.008475	2.354168	-	-	CEM Failure	CEM Failure	40.20	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 05:00	14.79	0.008513	2.364678	-	-	CEM Failure	CEM Failure	40.50	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 06:00	14.79	0.008726	2.332775	-	-	CEM Failure	CEM Failure	39.40	0.00	CEM Failure	0.00	CEM Failure	2.60				
17/10/2024 07:00	14.79	0.008749	2.291262	-	-	CEM Failure	CEM Failure	39.20	0.00	CEM Failure	0.00	CEM Failure	2.50				
17/10/2024 08:00	14.79	0.008491	2.358163	-	-	CEM Failure	CEM Failure	39.90	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 09:00	14.80	0.008051	2.234430	-	-	CEM Failure	CEM Failure	39.20	0.00	CEM Failure	0.00	CEM Failure	2.20				
17/10/2024 10:00	14.84	0.007449	2.064959	-	-	CEM Failure	CEM Failure	38.10	0.00	CEM Failure	0.00	CEM Failure	2.20				
17/10/2024 11:00	14.86	0.007574	2.103802	-	-	CEM Failure	CEM Failure	39.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 12:00	14.95	0.006925	1.923691	-	-	CEM Failure	CEM Failure	43.50	0.00	CEM Failure	0.00	CEM Failure	2.20				
17/10/2024 13:00	14.85	0.008002	2.222915	-	-	CEM Failure	CEM Failure	41.60	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 14:00	14.80	0.008399	2.332924	-	-	CEM Failure	CEM Failure	41.00	0.00	CEM Failure	0.00	CEM Failure	2.20				
17/10/2024 15:00	14.84	0.008722	2.287143	-	-	CEM Failure	CEM Failure	41.70	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 16:00	14.66	0.008494	2.359374	-	-	CEM Failure	CEM Failure	42.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 17:00	14.66	0.008736	2.426733	-	-	CEM Failure	CEM Failure	42.40	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 18:00	14.83	0.008493	2.360748	-	-	CEM Failure	CEM Failure	41.60	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 19:00	14.83	0.008453	2.375944	-	-	CEM Failure	CEM Failure	41.70	0.00	CEM Failure	0.00	CEM Failure	2.30				
17/10/2024 20:00	14.81	0.008463	2.350834	-	-	CEM Failure	CEM Failure	40.80	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 21:00	14.80	0.008426	2.346492	-	-	CEM Failure	CEM Failure	40.50	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 22:00	14.79	0.008328	2.332924	-	-	CEM Failure	CEM Failure	40.20	0.00	CEM Failure	0.00	CEM Failure	2.40				
17/10/2024 23:00	14.77	0.008430	2.455937	-	-	CEM Failure	CEM Failure	42.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 00:00	14.81	0.008789	2.443926	-	-	CEM Failure	CEM Failure	41.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 01:00	14.81	0.008433	2.342556	-	-	CEM Failure	CEM Failure	39.50	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 02:00	14.81	0.008521	2.364934	-	-	CEM Failure	CEM Failure	39.30	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 03:00	14.81	0.008563	2.378920	-	-	CEM Failure	CEM Failure	40.30	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 04:00	14.81	0.008602	2.389319	-	-	CEM Failure	CEM Failure	40.40	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 05:00	14.80	0.008491	2.358663	-	-	CEM Failure	CEM Failure	40.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 06:00	14.80	0.008459	2.352459	-	-	CEM Failure	CEM Failure	39.60	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 07:00	14.81	0.008394	2.331707	-	-	CEM Failure	CEM Failure	39.50	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 08:00	14.80	0.008676	2.409659	-	-	CEM Failure	CEM Failure	40.40	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 09:00	14.81	0.008261	2.294643	-	-	CEM Failure	CEM Failure	40.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 10:00	14.84	0.007449	2.103802	-	-	CEM Failure	CEM Failure	37.90	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 11:00	14.66	0.007446	2.123856	-	-	CEM Failure	CEM Failure	38.00	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 12:00	14.88	0.006966	1.943351	-	-	CEM Failure	CEM Failure	42.30	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 13:00	14.82	0.008173	2.270337	-	-	CEM Failure	CEM Failure	42.10	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 14:00	14.79	0.008334	2.370552	-	-	CEM Failure	CEM Failure	41.00	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 15:00	14.79	0.007814	2.170945	-	-	CEM Failure	CEM Failure	37.80	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 16:00	14.79	0.007459	2.072038	-	-	CEM Failure	CEM Failure	36.30	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 17:00	14.76	0.007275	2.020889	-	-	CEM Failure	CEM Failure	35.70	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 18:00	14.78	0.007309	2.028905	-	-	CEM Failure	CEM Failure	35.60	0.00	CEM Failure	0.00	CEM Failure	2.20				
18/10/2024 19:00	14.77	0.007246	2.019675	-	-	CEM Failure	CEM Failure	34.50	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 20:00	14.78	0.007372	2.047789	-	-	CEM Failure	CEM Failure	35.90	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 21:00	14.76	0.007452	2.069890	-	-	CEM Failure	CEM Failure	36.10	0.00	CEM Failure	0.00	CEM Failure	2.40				
18/10/2024 22:00	14.78	0.007314	2.087093	-	-	CEM Failure	CEM Failure	36.20	0.00	CEM Failure	0.00	CEM Failure	2.30				
18/10/2024 23:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 00:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 01:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 02:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 03:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 04:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 05:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 06:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 07:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 08:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 09:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 10:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 11:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 12:00	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	Shut down	
19/10/2024 13:00	14.91	0.007495	2.137594	-	-	CEM Failure											



[illegible]



Site Name: GULF NLL  
Stack Name: HRSG\_STACK1  
Periodically: 01/10/2024 00:00:31/10/2024 23:59

Date & Time	Operation Co	Emission Loading						Emission Concentration for Standardization Comparison						Remark				
		CO2		NOx		SOx		Dust		HRSG1_NOx@7%O2		HRSG1_SOx@7%O2			HRSG1_Dust (7%O2)		HRSG1_CO@7%O2	
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	ppm	ppm	mg/m3		ppm	ppm	ppm	
26/10/2024 15:00	14.79	0.007660	2.127800	-	-	-	-	-	36.60	0.00	0.00	-	-	-	-	-	-	
26/10/2024 16:00	14.79	0.007724	2.145569	-	-	-	-	-	36.80	0.00	0.00	-	-	-	-	-	-	
26/10/2024 17:00	14.77	0.007851	2.180741	-	-	-	-	-	37.00	0.00	0.00	-	-	-	-	-	-	
26/10/2024 18:00	14.74	0.007878	2.189407	-	-	-	-	-	36.70	0.00	0.00	-	-	-	-	-	-	
26/10/2024 19:00	14.73	0.007860	2.183296	-	-	-	-	-	36.70	0.00	0.00	-	-	-	-	-	-	
26/10/2024 20:00	14.73	0.007812	2.169970	-	-	-	-	-	36.30	0.00	0.00	-	-	-	-	-	-	
26/10/2024 21:00	14.71	0.007842	2.178384	-	-	-	-	-	36.20	0.00	0.00	-	-	-	-	-	-	
26/10/2024 22:00	14.69	0.007690	2.136141	-	-	-	-	-	35.30	0.00	0.00	-	-	-	-	-	-	
26/10/2024 23:00	14.67	0.008115	2.254063	-	-	-	-	-	36.80	0.00	0.00	-	-	-	-	-	-	
27/10/2024 00:00	14.66	0.008339	2.316305	-	-	-	-	-	37.00	0.00	0.00	-	-	-	-	-	-	
27/10/2024 01:00	14.66	0.008060	2.238655	-	-	-	-	-	35.60	0.00	0.00	-	-	-	-	-	-	
27/10/2024 02:00	14.65	0.007913	2.198070	-	-	-	-	-	35.20	0.00	0.00	-	-	-	-	-	-	
27/10/2024 03:00	14.67	0.007816	2.171052	-	-	-	-	-	35.40	0.00	0.00	-	-	-	-	-	-	
27/10/2024 04:00	14.65	0.007710	2.141618	-	-	-	-	-	34.20	0.00	0.00	-	-	-	-	-	-	
27/10/2024 05:00	14.66	0.007613	2.114599	-	-	-	-	-	34.00	0.00	0.00	-	-	-	-	-	-	
27/10/2024 06:00	14.66	0.007869	2.185800	-	-	-	-	-	35.00	0.00	0.00	-	-	-	-	-	-	
27/10/2024 07:00	14.67	0.007751	2.153095	-	-	-	-	-	34.60	0.00	0.00	-	-	-	-	-	-	
27/10/2024 08:00	14.67	0.007731	2.147424	-	-	-	-	-	34.60	0.00	0.00	-	-	-	-	-	-	
27/10/2024 09:00	14.70	0.007927	2.174125	-	-	-	-	-	35.40	0.00	0.00	-	-	-	-	-	-	
27/10/2024 10:00	14.73	0.007782	2.161739	-	-	-	-	-	35.60									



Site Name: GULF NLL  
 Stack Name: HRSO STACK1  
 Periodically: 01/10/2024 00:00-31/10/2024 23:59

	Operation Code	Emission Loading						Emission Concentration for Standardization Comparison						Remark
Date & Time	O2	NOx		SOx		Dust		HRSGO1_NOx@7%O2	HRSGO1_SOx@7%O2	HRSGO1_Dust (7%O2)	HRSGO1_CO@7%O2			
		%	Ton	(g/s)	Ton	(g/s)	Ton	(g/s)	ppm	ppm	mg/m3	ppm		
31/10/2024 18:00	14.70	0.007169	1.891264	-	-	CEM Failure	CEM Failure	32.80	0.00	CEM Failure	0.20			
31/10/2024 19:00	14.72	0.007212	2.002363	-	-	CEM Failure	CEM Failure	33.20	0.00	CEM Failure	0.20			
31/10/2024 20:00	14.72	0.007112	1.975629	-	-	CEM Failure	CEM Failure	32.80	0.00	CEM Failure	0.20			
31/10/2024 21:00	14.70	0.007044	1.956594	-	-	CEM Failure	CEM Failure	32.50	0.00	CEM Failure	0.20			
31/10/2024 22:00	14.71	0.007136	1.982296	-	-	CEM Failure	CEM Failure	32.60	0.00	CEM Failure	0.20			
31/10/2024 23:00	14.71	0.006445	1.445756	-	-	CEM Failure	CEM Failure	34.10	0.00	CEM Failure	0.20			
Minimum	14.53	0.00	1.15	0.00	0.00	0.00	0.04	24.10	0.00	1.58	0.00			
Maximum	16.48	0.01	2.51	0.00	0.00	0.00	0.08	53.50	0.00	2.62	257.00			
Avg	14.80	0.01	1.80	0.00	0.00	0.00	0.06	32.19	0.00	2.11	4.13			
SUM		4.00				0.08								
			STD = 5.90		STD = 0.62		STD = 1.56	STD =40		STD = 6	STD =30	STD = 890		