

## APPENDIX 1

Table: Data Used for the Model Verification

	Reference	No. of data	G [Mg/m <sup>2</sup> s]	P (MPa)	D (mm)	L/D	T <sub>in</sub> (°C)	q <sub>exp</sub> (MW/m <sup>2</sup> )
Data Collected by Celata (1994b)	Celata et al (1994b)	268	2.0-40.0	0.1-5.0	2.5-8.0	12.5-40	18.6-80.7	4.0-60.6
	Inasaka-Nariai (1989)	29	4.3-30.0	0.3-1.1	3	33.3	25.0-78.0	7.3-44.5
	Nariai et al (1987)	95	6.7-20.9	0.1	1.0-3.0	3-50	15.4-64.0	4.6-70.0
	Boyd (1988) (1989)(1990)	10	4.4-40.5	0.77-1.66	3	96.57	20.0	6.0-41.5
	Achilli et al (1992)	35	4.6-14.9	1.0-5.5	8.0-15.0	15-20	26.4-158	11.0-35.6
	Gambill-Greene (1958)	7	13.0-26.	0.1	7.8	9-20	4.9-35.8	15.8-33.0
	Vanderfort et al (1992)]	210	8.4-42.7	0.1-2.3	0.3-2.6	2.5-26	6.4-84.9	18.7-124
	Loosmore-Skinner (1965)	202	3.0-2.0	0.1-0.7	0.6-2.4	3-50	3.2-130.9	6.7-44.8
	Ornatskii-Vinyarskii (1965)	125	10.-90.	1.1-3.2	0.4-2.0	28	6.7-155.6	27.9-228
	Ornatskii-Kichigan (1962)	117	5.0-30.0	1.0-2.5	2	28	2.7-204.5	6.4-66.6
	Ornatskii (1960)]	68	20.-90.	1.0-3.2	0.5	28	1.5-153.7	42-224.5
	Knoebel et al (1937)	376	3.9-13.7	0.2-0.7	9.5	64	0.3-104.8	3.3-11.4
	Mirshak et al (1959)	56	4.7-12.2	0.2-0.6	6.0-11.9	41-96	4.7-12.2	3.9-10.0
	Babcock (1962)	57	2.4-11.4	0.4-8.4	7.9-25.4	27-75	20-242.7	4.9-11.8
	Burck-Hufschmidt (1965)	143	0.9-3.8	1.1-3.1	10	35	16.7-60.8	4.5-12.2
	Mayersak et al (1964)	1	44.4	2.9	11.7	50	18.0	42.8
	Schaefer-Jack (1962)	2	61.2-61.7	1.3-1.5	3.05	6.25	15.6-18.9	125.0-130
	Thorgerson (1969)	42	4.2-13.4	0.5	7.8-8.4	72.3-78	1.1-79.2	4.2-12.4
	Zeigarnik et al (1981)	21	4.8-20.6	0.5-3.0	4	62.5	0.6-134.1	9.4-32.6
	Gambill et al (1961)	23	7.0-53.0	0.1-0.5	3.2-7.8	6-54	8.8-23.9	7.0-48.7
Total	1887	0.9-90	0.1-8.4	0.3-25.4	2.5-97	0.3-242.7	3.3-227.9	
Data Collected by Pei (1981)	Bortoli (1958)	153	1.2-10.6	3.5-19.25	1.9-5.7	20-365	27-354	1.7-13.3
	Matzner (1963)	76	1.36-18.6	7	13-37.5	26-151	116-270	3.1-8.1
	Lee D.H. et al (1963)	23	2.0-4.1	3.9-11.3	5.6-10.8	20-82	181-254	3.9-7.2
	Thompson (1964)	146	3.7-10.4	3.5-10.5	10.3	74-77.3	201.5-251	4.19-9.4
	Weatherhead (1963a)	9	6.5-9.3	2.17	1.1	100	102-173	4.26-7.3
	Weatherhead (1963b)	76	0.9-2.7	14	7.7-11.1	41.3-59	66.5-302	2.52-5.3
	Hood (1962)	3	1.7-2.4	7	12-23.5	26-49	162-252	3.4-4.9
	Total	486	0.9-18.6	2.2-19.25	1.1-37.5	20-365	27-354	1.7-13.3
Chen et al (1997)	109	1.4-13	0.16-1.29	10-16	18-40	19-114	4.17-10.4	
Total	2482	0.9-90	0.1-19.25	0.3-37.5	2.5-365	0.3-354	3.3-227.9	