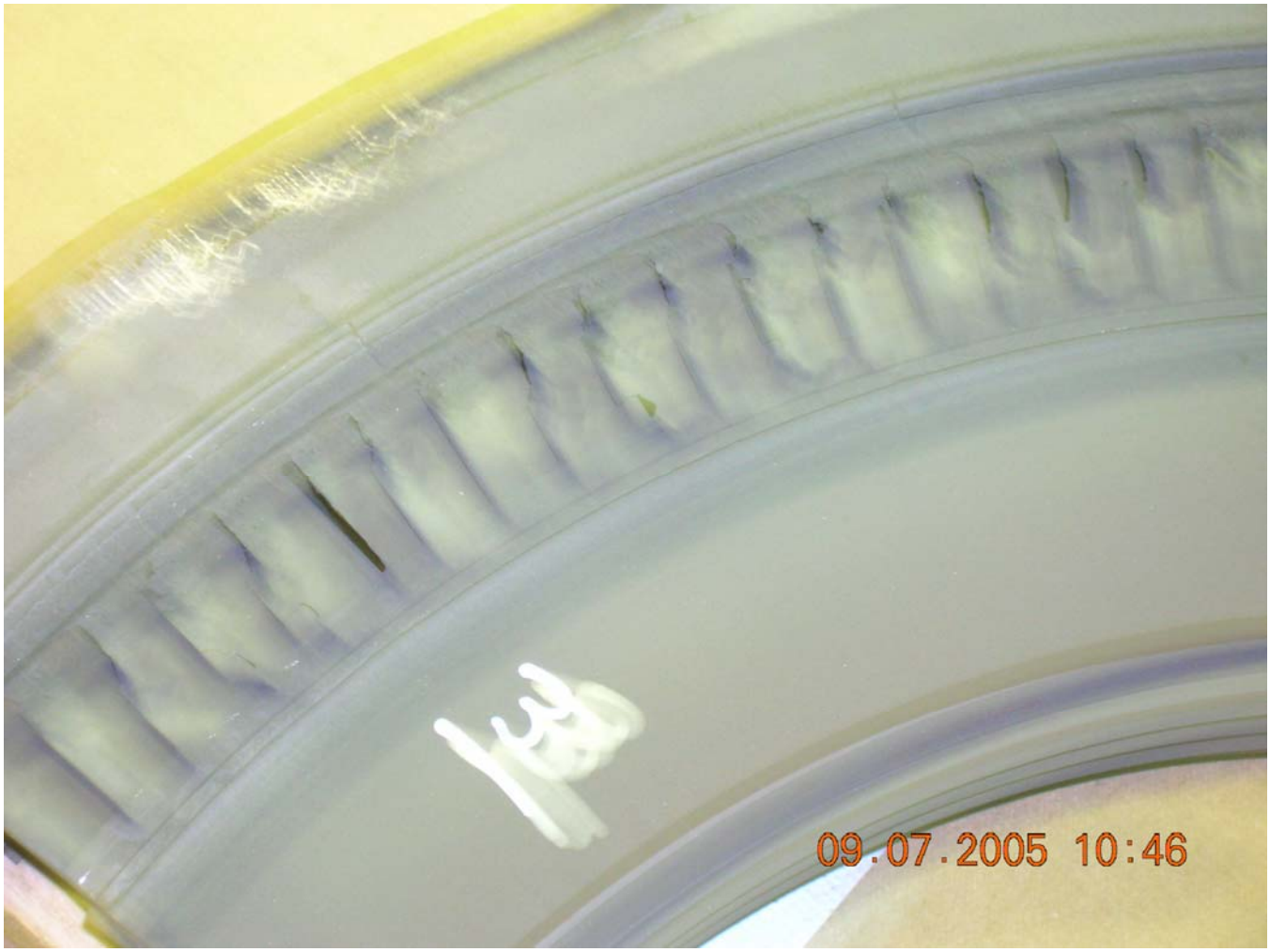
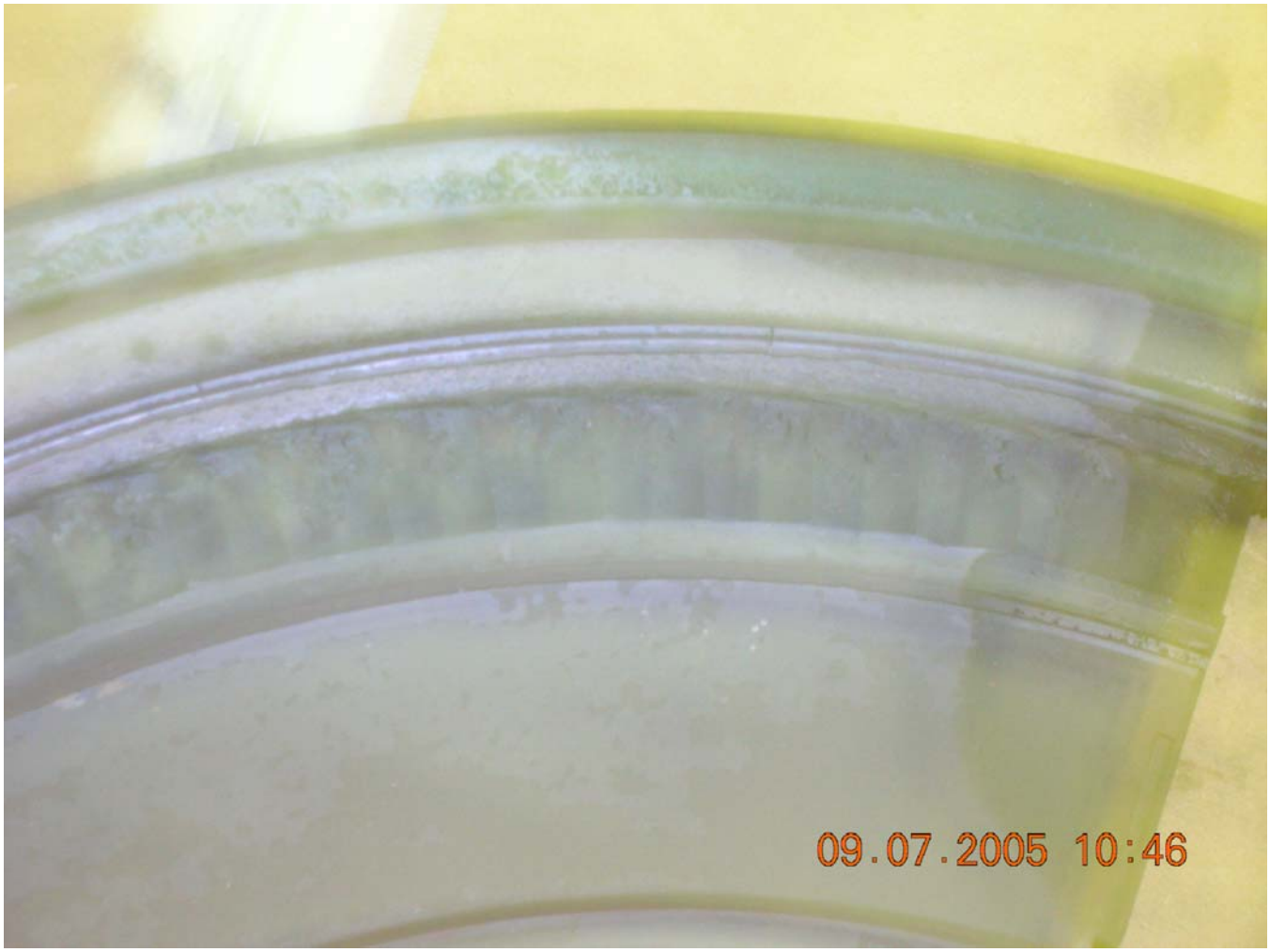
APPENDIX U: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTCILE EROSION (SPE)



APPENDIX V: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)

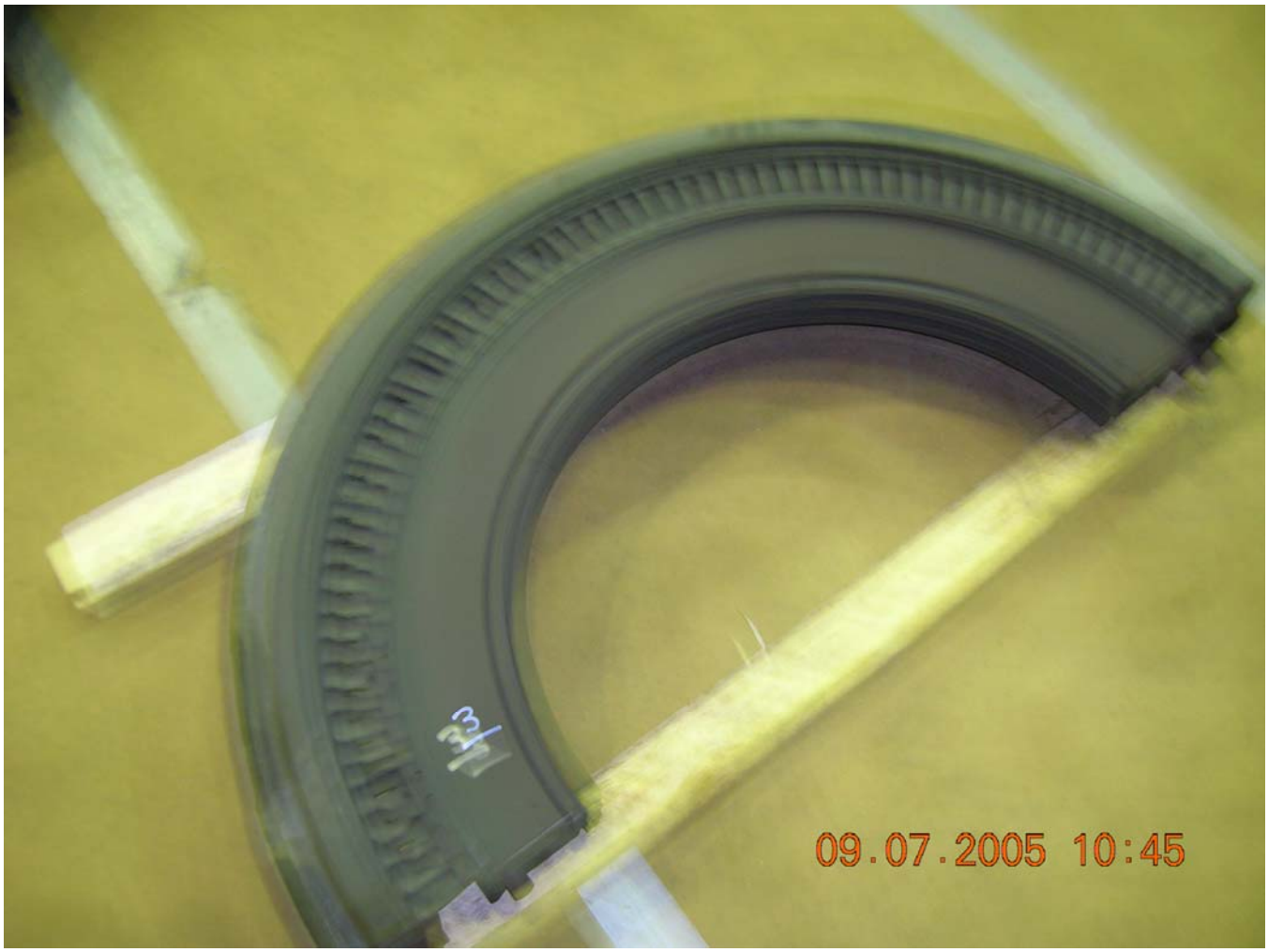


APPENDIX W: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)

APPENDIX X: STAGE 2 DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE) ON STAGE 2

APPENDIX Y: 2ND STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION

APPENDIX Z: 3RD STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION



APPENDIX AA: 6TH STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)

APPENDIX AB: INTERMEDIATE SECTION ROTOR SHOWING THE ROTATING BLADES

APPENDIX AC: JOHN AMOO-OTOO, PLANT ELECTRICAL ENGINEER GETTING THE HIT SKID (FOR VACUUM DECAY AND PRESSURE DECAY TEST) ON THE GENRATOR SET UP DURING THE OUTAGE IN OCTOBER 2005 FOR TESTING TO BE DONE

APPENDIX AD: OUTER SHELLS OF THE HIGH PRESSURE AND INTERMEDIATE PRESSURE SECTION BEING INSTALLED.

APPENDIX AE: Typical Thermodynamic Properties of Steam and Generator Reactive Capability Curve

6/13/2006

(377.531)	h	350.94	1197.6	1212.0	1242.0	1270.1	1297.1	1323.3	1349.2	1374.8	1425.9	1477.4	1529.4	1582.1
	s	0.5384	1.5498	1.5667	1.6006	1.6307	1.6581	1.6835	1.7073	1.7299	1.7722	1.8115	1.8484	1.8834
200	v	0.01839	2.287	2.360	2.548	2.725	2.894	3.058	3.219	3.378	3.691	4.001	4.308	4.613
(381.805)	h	355.51	1198.3	1210.1	1240.6	1269.0	1296.2	1322.6	1348.6	1374.3	1425.5	1477.0	1529.1	1581.9
	s	0.5438	1.5454	1.5593	1.5938	1.6242	1.6518	1.6773	1.7013	1.7239	1.7663	1.8057	1.8426	1.8776
210	v	0.01844	2.182	2.236	2.418	2.588	2.750	2.908	3.062	3.214	3.513	3.808	4.101	4.392
(385.915)	h	359.91	1198.9	1208.2	1239.2	1268.0	1295.3	1321.9	1347.9	1373.7	1425.1	1476.7	1528.8	1581.6
	s	0.5490	1.5413	1.5522	1.5872	1.6180	1.6458	1.6715	1.6955	1.7182	1.7607	1.8001	1.8371	1.8721
220	v	0.01850	2.086	2.124	2.300	2.464	2.620	2.771	2.919	3.064	3.350	3.633	3.912	4.190
(389.876)	h	364.17	1199.5	1206.3	1237.8	1266.9	1294.5	1321.2	1347.3	1373.2	1424.7	1476.3	1528.5	1581.4
	s	0.5540	1.5374	1.5453	1.5808	1.6120	1.6400	1.6658	1.6900	1.7128	1.7553	1.7948	1.8318	1.8668
230	v	0.01855	1.998	2.021	2.192	2.350	2.501	2.646	2.788	2.928	3.202	3.473	3.741	4.007
(393.698)	h	368.28	1200.1	1204.4	1236.3	1265.7	1293.6	1320.4	1346.7	1372.7	1424.2	1476.0	1528.2	1581.1
	s	0.5588	1.5336	1.5385	1.5747	1.6062	1.6344	1.6604	1.6846	1.7075	1.7502	1.7897	1.8268	1.8618
240	v	0.01860	1.918	1.927	2.093	2.246	2.391	2.532	2.668	2.802	3.066	3.326	3.583	3.839
(397.393)	h	372.27	1200.6	1202.4	1234.9	1264.6	1292.7	1319.7	1346.1	1372.1	1423.8	1475.6	1527.9	1580.9
	s	0.5634	1.5299	1.5320	1.5687	1.6006	1.6291	1.6552	1.6795	1.7025	1.7452	1.7848	1.8219	1.8570
250	v	0.01865	1.843		2.002	2.150	2.291	2.426	2.558	2.687	2.941	3.191	3.438	3.684
(400.97)	h	376.14	1201.0		1233.4	1263.5	1291.8	1319.0	1345.5	1371.6	1423.4	1475.3	1527.6	1580.6
	s	0.5679	1.5264		1.5629	1.5951	1.6239	1.6502	1.6746	1.6976	1.7405	1.7801	1.8173	1.8524
260	v	0.01870	1.774		1.917	2.062	2.198	2.329	2.456	2.581	2.826	3.066	3.304	3.541
(404.437)	h	379.90	1201.5		1231.9	1262.4	1290.9	1318.2	1344.9	1371.1	1423.0	1474.9	1527.3	1580.4
	s	0.5722	1.5230		1.5573	1.5899	1.6189	1.6453	1.6699	1.6930	1.7359	1.7756	1.8128	1.8480
270	v	0.01875	1.710		1.839	1.980	2.112	2.239	2.362	2.482	2.719	2.951	3.181	3.408
(407.802)	h	383.56	1201.9		1230.4	1261.2	1290.0	1317.5	1344.2	1370.5	1422.6	1474.6	1527.1	1580.1
	s	0.5764	1.5197		1.5518	1.5848	1.6140	1.6406	1.6653	1.6885	1.7315	1.7713	1.8085	1.8437
280	v	0.01880	1.650		1.767	1.904	2.032	2.155	2.274	2.391	2.619	2.844	3.066	3.286
(411.071)	h	387.12	1202.2		1228.8	1260.0	1289.1	1316.8	1343.6	1370.0	1422.1	1474.2	1526.8	1579.9
	s	0.5805	1.5166		1.5464	1.5798	1.6093	1.6361	1.6609	1.6841	1.7273	1.7671	1.8043	1.8395
290	v	0.01885	1.595		1.699	1.833	1.958	2.077	2.193	2.306	2.527	2.744	2.958	3.171
(414.251)	h	390.60	1202.5		1227.3	1258.9	1288.1	1316.0	1343.0	1369.5	1421.7	1473.9	1526.5	1579.6
	s	0.5844	1.5135		1.5412	1.5750	1.6048	1.6317	1.6566	1.6799	1.7232	1.7630	1.8003	1.8356
300	v	0.01889	1.543		1.636	1.766	1.888	2.004	2.117	2.226	2.441	2.651	2.859	3.064
(417.347)	h	393.99	1202.8		1225.7	1257.7	1287.2	1315.2	1342.4	1368.9	1421.3	1473.6	1526.2	1579.4
	s	0.5882	1.5105		1.5361	1.5703	1.6003	1.6274	1.6524	1.6758	1.7192	1.7591	1.7964	1.8317
310	v	0.01894	1.494		1.576	1.704	1.823	1.936	2.045	2.152	2.360	2.564	2.765	2.964
(420.365)	h	397.30	1203.1		1224.1	1256.5	1286.3	1314.5	1341.7	1368.4	1420.9	1473.2	1525.9	1579.2
	s	0.5920	1.5076		1.5311	1.5657	1.5960	1.6233	1.6484	1.6719	1.7153	1.7553	1.7927	1.8280
320	v	0.01899	1.448		1.521	1.646	1.762	1.873	1.979	2.082	2.284	2.482	2.677	2.871
(423.307)	h	400.53	1203.4		1222.5	1255.2	1285.3	1313.7	1341.1	1367.8	1420.5	1472.9	1525.6	1578.9
	s	0.5956	1.5048		1.5261	1.5612	1.5918	1.6192	1.6445	1.6680	1.7116	1.7516	1.7890	1.8243
330	v	0.01903	1.405		1.468	1.591	1.705	1.813	1.916	2.017	2.213	2.405	2.595	2.783
(426.18)	h	403.70	1203.6		1220.9	1254.0	1284.4	1313.0	1340.4	1367.3	1420.0	1472.5	1525.3	1578.7
	s	0.5991	1.5021		1.5213	1.5568	1.5876	1.6153	1.6406	1.6643	1.7079	1.7480	1.7855	1.8208
340	v	0.01908	1.364		1.419	1.540	1.651	1.756	1.857	1.955	2.146	2.333	2.518	2.700

(431.728)	h	409.83	1203.99	1217.5	1251.5	1282.4	1311.4	1339.2	1366.2	1392.8	1419.2	1471.8	15
	s	0.6059	1.4968	1.5119	1.5483	1.5797	1.6077	1.6333	1.6571	1.6796	1.7009	1.7411	1.7
360	v	0.01917	1.289	1.329	1.445	1.552	1.653	1.749	1.842	1.934	2.024	2.201	2
(434.411)	h	412.81	1204.15	1215.8	1250.3	1281.5	1310.6	1338.5	1365.6	1392.3	1418.7	1471.5	15
	s	0.6092	1.4943	1.5073	1.5441	1.5758	1.6040	1.6297	1.6536	1.6762	1.6976	1.7379	1.7
380	v	0.01925	1.222	1.247	1.361	1.463	1.560	1.652	1.741	1.828	1.914	2.082	2
(439.609)	h	418.59	1204.40	1212.4	1247.7	1279.5	1309.0	1337.2	1364.5	1391.3	1417.9	1470.8	15
	s	0.6156	1.4894	1.4982	1.5360	1.5683	1.5969	1.6229	1.6470	1.6696	1.6911	1.7315	1.7
400	v	0.01934	1.161	1.174	1.284	1.384	1.476	1.565	1.650	1.733	1.815	1.976	2
(444.599)	h	424.17	1204.59	1208.8	1245.1	1277.5	1307.4	1335.9	1363.4	1390.4	1417.0	1470.1	15
	s	0.6217	1.4847	1.4894	1.5282	1.5611	1.5901	1.6163	1.6406	1.6634	1.6850	1.7255	1.7
420	v	0.01942	1.106	1.107	1.215	1.311	1.401	1.486	1.568	1.647	1.726	1.879	2
(449.401)	h	429.56	1204.71	1205.2	1242.4	1275.4	1305.8	1334.5	1362.3	1389.4	1416.2	1469.4	15
	s	0.6276	1.4802	1.4808	1.5206	1.5542	1.5835	1.6100	1.6345	1.6574	1.6791	1.7197	1.7
440	v	0.01950	1.055		1.152	1.245	1.332	1.414	1.493	1.569	1.644	1.792	1
(454.03)	h	434.77	1204.78		1239.7	1273.4	1304.2	1333.2	1361.1	1388.4	1415.3	1468.7	15
	s	0.6332	1.4759		1.5132	1.5474	1.5772	1.6040	1.6286	1.6516	1.6734	1.7142	1.7
460	v	0.01959	1.009		1.094	1.185	1.269	1.348	1.424	1.498	1.570	1.712	1
(458.5)	h	439.83	1204.79		1236.9	1271.3	1302.5	1331.8	1360.0	1387.4	1414.4	1468.0	15
	s	0.6387	1.4718		1.5060	1.5409	1.5711	1.5982	1.6230	1.6461	1.6680	1.7089	1.7
480	v	0.01967	0.967		1.041	1.130	1.211	1.288	1.361	1.433	1.502	1.638	1
(462.823)	h	444.75	1204.75		1234.1	1269.1	1300.8	1330.5	1358.8	1386.4	1413.6	1467.3	15
	s	0.6439	1.4677		1.4990	1.5346	1.5652	1.5925	1.6176	1.6408	1.6628	1.7038	1.7
500	v	0.01975	0.928		0.992	1.079	1.158	1.233	1.304	1.372	1.440	1.571	1
(467.01)	h	449.52	1204.67		1231.2	1267.0	1299.1	1329.1	1357.7	1385.4	1412.7	1466.6	15
	s	0.6490	1.4639		1.4921	1.5284	1.5595	1.5871	1.6123	1.6357	1.6578	1.6990	1.7
520	v	0.01982	0.891		0.947	1.032	1.109	1.182	1.250	1.317	1.382	1.509	1
(471.07)	h	454.18	1204.54		1228.3	1264.8	1297.4	1327.7	1356.5	1384.4	1411.8	1465.9	15
	s	0.6540	1.4601		1.4853	1.5223	1.5539	1.5818	1.6072	1.6308	1.6530	1.6943	1.7
540	v	0.01990	0.858		0.905	0.988	1.064	1.134	1.201	1.266	1.328	1.451	1
(475.012)	h	458.71	1204.37		1225.3	1262.5	1295.7	1326.3	1355.3	1383.4	1410.9	1465.1	15
	s	0.6587	1.4565		1.4786	1.5164	1.5485	1.5767	1.6023	1.6260	1.6483	1.6897	1.7
560	v	0.01998	0.826		0.865	0.948	1.022	1.090	1.155	1.218	1.279	1.397	1
(478.843)	h	463.14	1204.17		1222.2	1260.3	1293.9	1324.9	1354.2	1382.4	1410.0	1464.4	15
	s	0.6634	1.4529		1.4720	1.5106	1.5431	1.5717	1.5975	1.6214	1.6438	1.6853	1.7
580	v	0.02006	0.797		0.829	0.910	0.982	1.049	1.112	1.173	1.232	1.347	1
(482.571)	h	467.47	1203.93		1219.1	1258.0	1292.1	1323.4	1353.0	1381.4	1409.2	1463.7	15
	s	0.6679	1.4495		1.4654	1.5049	1.5380	1.5668	1.5929	1.6169	1.6394	1.6811	1.7
600	v	0.02013	0.770		0.794	0.875	0.946	1.011	1.073	1.132	1.189	1.301	1
(486.202)	h	471.70	1203.66		1215.9	1255.6	1290.3	1322.0	1351.8	1380.4	1408.3	1463.0	15
	s	0.6723	1.4461		1.4590	1.4993	1.5329	1.5621	1.5884	1.6125	1.6351	1.6769	1.7
620	v	0.02021	0.744		0.762	0.841	0.911	0.975	1.035	1.093	1.149	1.257	1
(489.742)	h	475.84	1203.35		1212.7	1253.3	1288.5	1320.5	1350.6	1379.3	1407.4	1462.3	15
	s	0.6766	1.4428		1.4526	1.4939	1.5279	1.5575	1.5839	1.6083	1.6310	1.6729	1.7
640	v	0.02028	0.720		0.732	0.810	0.879	0.941	1.000	1.056	1.111	1.216	1
(493.195)	h	479.89	1203.02		1209.3	1250.9	1286.7	1319.1	1349.3	1378.3	1406.5	1461.6	15

3/1996 1080

Estimated capability curves
Dwg. 41IHA356 (rev 0)

Fig. 17-3