

DORAN COMPANY
OF CALIFORNIA
1899 - 7TH STREET • OAKLAND 20, CALIFORNIA
PROPELLER MEASUREMENTS

PROPELLER EX "GENERAL RANDALL"

1. NAME OF MANUFACTURER Cramp
2. CONTR. OR J. O. No. N220s-76924-A
3. DRAWING No. _____
4. DIAM.: 18 FEET 0 INCHES.
5. PITCH: 22.69 FEET _____ INCHES.

6. ROTATION Right Hand
7. SUITABILITY P2-S2-R2
8. HEAT No. 955-C SERIAL No. 24809
9. WEIGHT 30,740 LBS.

BLADE No. 1

SHOP 4161

AS FOUND PITCH REPORT

RADIUS			20°	15°	10°	5°	CL	5°	10°	15°	20°	25°			MEAN PITCH	DESIGN PITCH	PER CENT DEVIATION
.3			5408		4065		3890		3119		2364	2031		33.77	270.160	272.280	- .74%
.4			5246		4502		3740		2977		2216	1842		34.04	272.320	"	+ .01%
.5			5101		4343		3581		2820		2063			30.38	273.420	"	+ .42%
.6			4972		4200		3432		2668		1911			30.61	275.490	"	+1.18%
.7				4459	4080	3698	3309	2916	2528	2149	1763			26.96	277.688	"	+1.98%
.8					3940	3557	3173	2785	2394	2010				19.30	277.920	"	+2.07%
.9						3417	3038	2641	2268	1889				15.28	275.040	"	+1.01%
.95							2967	2570	2187					7.80	280.800	"	+2.72%

BLADE No. 2

BLADE AVERAGE

RADIUS			20°	15°	10°	5°	CL	5°	10°	15°	20°	25°			MEAN PITCH	DESIGN PITCH	PER CENT DEVIATION
.3			5374		4622		3859		3092		2345	2007		33.67	269.360	272.280	-1.03%
.4			5230		4467		3711		2940		2186	1816		34.14	273.120	"	+ .30%
.5			5086		4312		3551		2780		2033			30.53	274.770	"	+ .91%
.6			4933		4167		3403		2638		1880			30.53	274.770	"	+ .91%
.7				4428	4040	3658	3270	2883	2493	2113	1732			26.96	277.680	"	+1.24%
.8					3904	3525	3138	2747	2358	1964				19.40	279.360	"	+2.60%
.9						3401	3002	2627	2234	1827				15.74	283.320	"	+4.05%
.95							2949	2573	2180					7.69	276.840	"	+1.67%

BLADE No. 3

BLADE AVERAGE

RADIUS			20°	15°	10°	5°	CL	5°	10°	15°	20°	25°			MEAN PITCH	DESIGN PITCH	PER CENT DEVIATION
.3			5373		4623		3863		3111		2349	2012		33.61	268.880	272.280	+1.24%
.4			5215		4455		3703		2950		2189	1812		34.03	272.240	"	- .01%
.5			5058		4295		3549		2786		2024			30.34	273.060	"	+ .28%
.6			4922		4160		3403		2633		1858			30.64	275.760	"	+1.24%
.7				4410	4034	3659	3280	2889	2489	2099	1712			26.98	277.894	"	+2.62%
.8					3890	3521	3140	2750	2349	1952				19.38	279.072	"	+2.49%
.9						3373	3014	2620	2210	1822				15.51	279.180	"	+2.55%
.95							2942	2559	2138					8.04	289.440	"	+6.31%

BLADE No. 4

BLADE AVERAGE

RADIUS			20°	15°	10°	5°	CL	5°	10°	15°	20°	25°			MEAN PITCH	DESIGN PITCH	PER CENT DEVIATION
.3			5403		4641		3870		3107		2363	2035		33.68	269.440	272.280	-1.04%
.4			5216		4459		3712		2952		2209	1848		33.68	269.440	"	-1.04%
.5			5064		4312		3560		2810		2053			30.11	270.990	"	- .47%
.6			4931		4166		3398		2638		1892			30.39	273.510	"	+ .45%
.7				4408	4024	3645	3265	2876	2494	2119	1736			26.72	275.216	"	+1.08%
.8					3873	3486	3107	2720	2341	1965				19.08	274.752	"	+ .91%
.9						3343	2968	2578	2190	1802				15.41	277.380	"	+1.87%
.95							2898	2501	2118					7.80	280.800	"	+3.16%