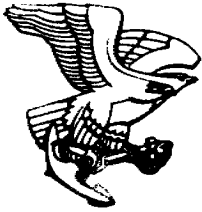


Certificate Number:
A960825N



AMERICAN BUREAU OF SHIPPING UNITED STATES OF AMERICA TONNAGE CERTIFICATE

VESSEL NAME J.W. POWELL		OFFICIAL NUMBER	VESSEL TYPE OCEANOGRAPHIC RESEARCH VESSEL	
BUILDER AMERICAN MARINE CORP.		DATE KEEL LAID / ALTERED 1965		
WHERE BUILT NEW ORLEANS, LA		DATE COMPLETED 1965		
HULL NUMBER 922	PROPULSION <input type="checkbox"/> Non-Self-Propelled <input checked="" type="checkbox"/> Self-Propelled <input checked="" type="checkbox"/> Propel Mchry in Hull		OVERALL LENGTH 44.65 m 146.5 ft	
REGISTERED LENGTH 43.43 m 142.5 ft		REGISTERED BREADTH 10.67 m 35.0 ft		REGISTERED DEPTH 3.66 m 12.0 ft

REGISTERED GROSS TONNAGE 474	REGISTERED NET TONNAGE 142	DATE ASSIGNED NOVEMBER 12, 1996
ASSIGNED UNDER 46 CFR SUBPART <input checked="" type="checkbox"/> B (Convention) <input type="checkbox"/> C (Standard) <input type="checkbox"/> D (Dual Tonnage) <input type="checkbox"/> E (Simplified)		ASSIGNED BY ABS AMERICAS
REMARKS / RESTRICTIONS <input checked="" type="checkbox"/> International Tonnage Certificate (1969) issued for this vessel. Tonnages and principal dimensions on International Tonnage Certificate (1969) if different from registered tonnages and dimensions: GROSS TONNAGE _____; NET TONNAGE _____; LENGTH _____ m _____ ft; BREADTH _____ m _____ ft; DEPTH _____ m _____ ft. <input type="checkbox"/> Water ballast in excess of 30% of gross tonnage approved by U.S. Coast Guard letter dated _____ Registered tonnages valid for _____ service only. <input type="checkbox"/> Registered tonnages valid for Great Lakes voyages only.		

REGULATORY GROSS TONNAGE 297	REGULATORY NET TONNAGE 202	DATE ASSIGNED NOVEMBER 12, 1996
ASSIGNED UNDER 46 CFR SUBPART <input checked="" type="checkbox"/> C (Standard) <input type="checkbox"/> D (Dual Tonnage) <input type="checkbox"/> E (Simplified)		ASSIGNED BY ABS AMERICAS
REMARKS / RESTRICTIONS <input checked="" type="checkbox"/> Regulatory tonnages are to be used for the application of laws listed under 46 U.S.C. 14305, and all International Maritime Organization (IMO) Interim Schemes except the following: <input checked="" type="checkbox"/> SOLAS (radiotelephony only) <input checked="" type="checkbox"/> SOLAS (all other provisions) <input checked="" type="checkbox"/> STCW <input checked="" type="checkbox"/> MARPOL <input type="checkbox"/> Water ballast in excess of 30% of gross tonnage approved by U.S. Coast Guard letter dated _____ Regulatory tonnages valid for _____ service only. <input type="checkbox"/> Regulatory tonnages valid for Great Lakes voyages only.		

I CERTIFY that I am duly authorized by the United States Government to issue this certificate:

TONNAGE SURVEYOR: *Mark Tvede* (SEAL)
ISSUED AT: HOUSTON, TEXAS
DATE: NOVEMBER 12, 1996

CONVENTION MEASUREMENT SYSTEM				REGULATORY MEASUREMENT SYSTEM		
GROSS TONNAGE				GROSS TONNAGE		
SPACE	LOCATION (Frames)	LENGTH (meters)	VOLUME (cubic meters)	SPACE	TONNAGE (to gross)	
UNDERDECK	-	-	1248.89	Underdeck	290.21	
FORECASTLE	F.E.-23	15.27	291.96	Between-deck		
D.H. 1ST TIER (P)	35-44	5.49	64.01	Forecastle	5.57	
D.H. 2ND TIER	8 1/2-18 1/2	5.94	84.86	1st Tier	0.00	
D.H. 3RD TIER	10-17	4.30	40.74	2nd Tier	2.08	
FUNNEL	35-44	5.49	59.67	3rd Tier	0.00	
				4th Tier		
				5th Tier		
				6th Tier		
				Excess hatchways		
TOTAL VOLUME				EXEMPTED SPACES (Except Water Ballast)		
1789.33				SPACE	TONNAGE (exempted)	
				Anchor gear	2.02	
				Companions	0.92	
				Dry cargo and stores		
				Galley	8.56	
				Light and air	41.98	
				Machinery	3.23	
				Open space	100.48	
				Passenger space		
				Skylights and air		
				Steering gear		
				Water closets	13.85	
				Wheelhouse	11.70	
EXCLUDED SPACES				WATER BALLAST		
SPACE	LOCATION (frames)	LENGTH (meters)	VOLUME (cubic meters)	TANK	LOCATION	TONNAGE (exempted)
				Forepeak		2.05
				Afterpeak		1.37
				Tank No.1 p/s	Frs.6-13	19.52
				Tank No.5 (c)	Frs.48-53	7.89
				Tank No.5 p/s	Frs.48-57	13.38
NET TONNAGE				DEDUCTED SPACES		
SPACE	LOCATION (frames)	LENGTH (meters)	VOLUME (cubic meters)	SPACE	TONNAGE (deducted)	
NONE				Anchor gear		
				Boatswain's stores		
				Chart house		
				Crew space		
				Generators		
				Master's cabin		
				Propelling machinery	95.32	
				Radio house		
				Steering gear		
				Waste material space		
TOTAL VOLUME				DUAL MEASUREMENT SYSTEM		
MOLDED DRAFT		PASSENGERS (cubins of 6 berths or less)		NUMBER COMPLETE DECKS:		
2.74 m	9.0 ft	0		TONNAGE MARK ASSIGNED:		
		OTHER PASSENGERS:				
		0				