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# PUBLIC WORKS CENTER GUAM FLEET MOORINGS UNDERWATER INSPECTION REPORT

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## SEPTEMBER 1983

OCEAN ENGINEERING AND CONSTRUCTION PROJECT OFFICE CHESAPEAKE DIVISION NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D.C. 20374

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This report contains results of the inspec	tion of 22 fleet moorings operated
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Of the 22 moorings inspected, 19 were found to be in satisfactory condition, and 3 were found to be in fair condition with 1 of these recommended for overhaul. Specific comments concerning each of these moorings and recommendations for future actions are included in this report.

#### **Abstract**

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This report contains results of the inspection of 22 fleet moorings operated and maintained by the Public Works Center, Guam. A CHESNAVFACENGCOM-assigned Engineer-in-Charge and divers from Underwater Construction Team Two conducted the inspection from 6-14 June 1983.

▶ Of the 22 moorings inspected, 19 were found to be in satisfactory condition, and 3 were found to be in fair condition with 1 of these recommended for overhaul. Specific comments concerning each of these moorings and recommendations for future actions are included within this report.

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#### PWC GUAM FLEET MOORINGS INSPECTION REPORT

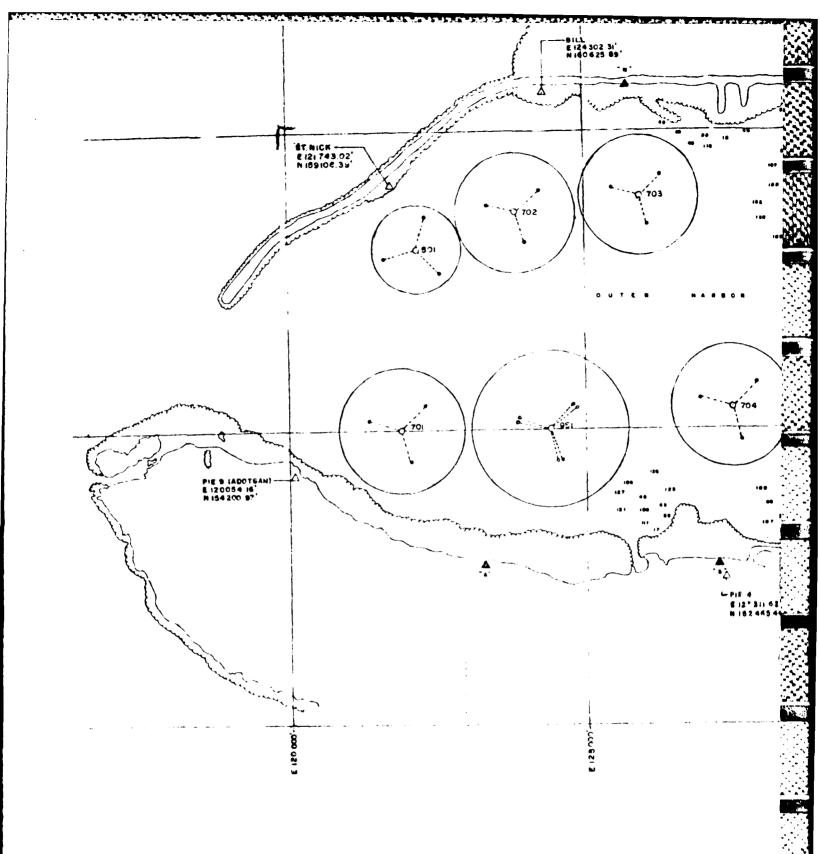
#### I.0 INTRODUCTION

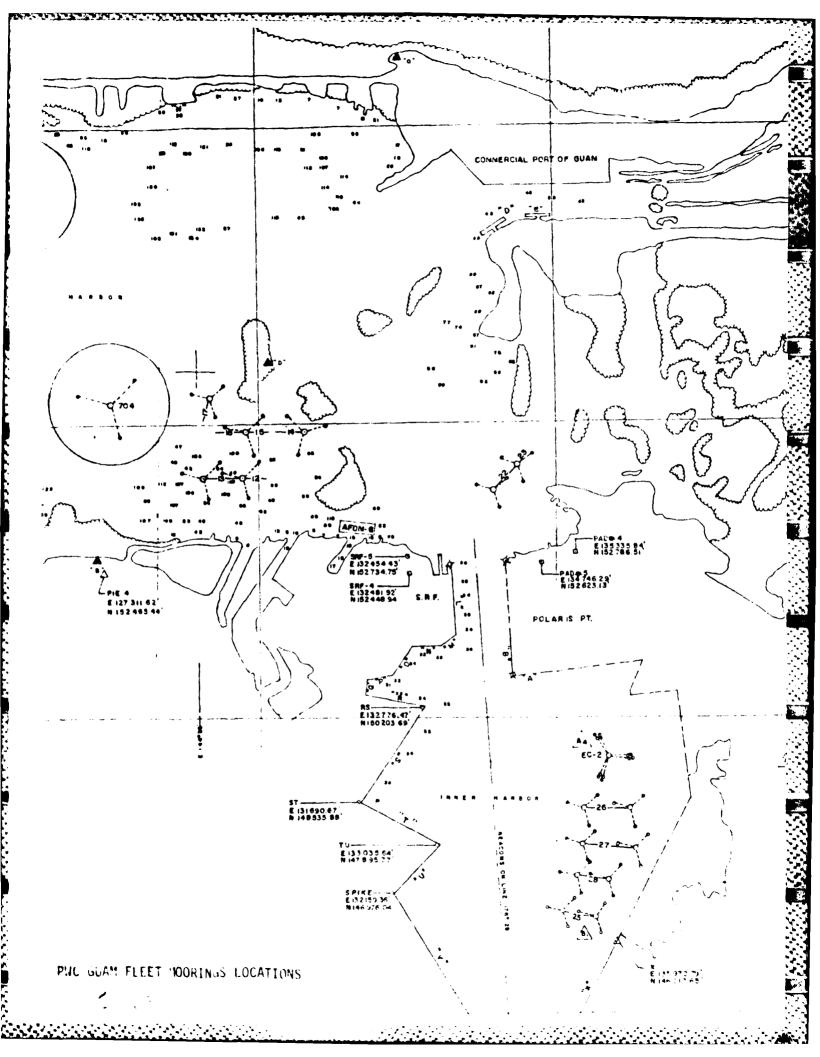
- Background. Under the COMNAVFACENGCOM Fleet Mooring Maintenance (FMM) Program, CHESNAVFACENGCOM has been assigned the responsibility to plan and conduct periodic diver inspections of all fleet moorings worldwide. In carrying out this responsibility, CHESNAVFACENGCOM designated an Engineer-in-Charge (EIC) to provide inspection planning and onsite technical direction for the underwater inspection of fleet moorings located in Apra Harbor near the Public Works Center Guam. The actual underwater portion of the inspection was performed by divers of Underwater Construction Team Two (UCT TWO). The inspection was conducted 6-14 June 1983.
- General Mooring History. PWC Guam currently operates and maintains 22 fleet moorings. They consist of one AA-, one CC-, one A-, thirteen B-, five D-, and one E-class moorings. Figure I shows the overall geographic positions of these moorings located in Apra Harbor, Guam, while Figures 2 and 3 are enlargements of portions of Apra Harbor and show the positions of the fleet moorings located in the outer and inner harbors, respectively.

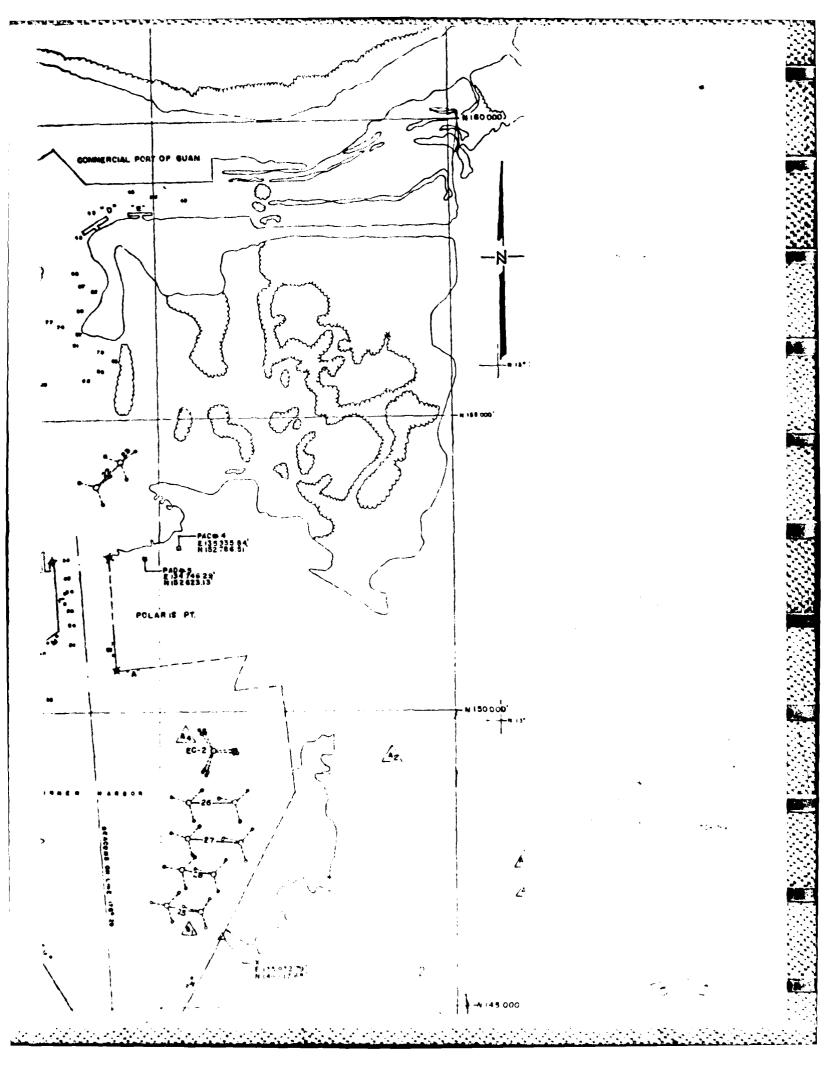
The latest maintenance data summary concerning these moorings was prepared by PWC Guam in April 1983. Table I is a copy of this summary.

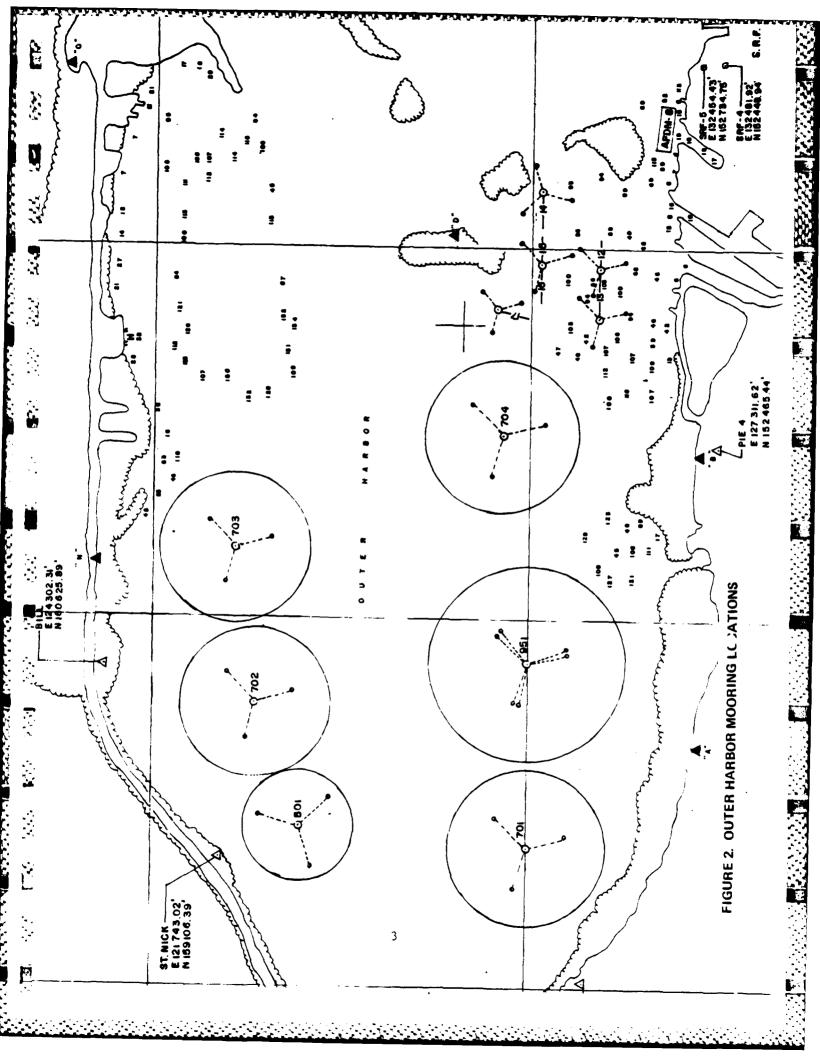
#### 2.0 INSPECTION PROCEDURES

Inspection Objectives. The purpose of the mooring inspections was to determine the general physical condition of the buoys and chain assemblies and, when possible, to verify or update existing as-built and maintenance records. Divers inspected only a portion of the submerged buoy hull and chain assemblies in order to compile a general description of the mooring's condition. The existence of fairly consistent measurements during this inspection provides a good indication of the mooring's overall condition. It should be kept in mind that periodic underwater inspections are intended as an expedient and relatively inexpensive supplement to accurate maintenance records. As such, they cannot fully substitute for a complete inspection involving recovery of the mooring and the measurement and evaluation of each component.









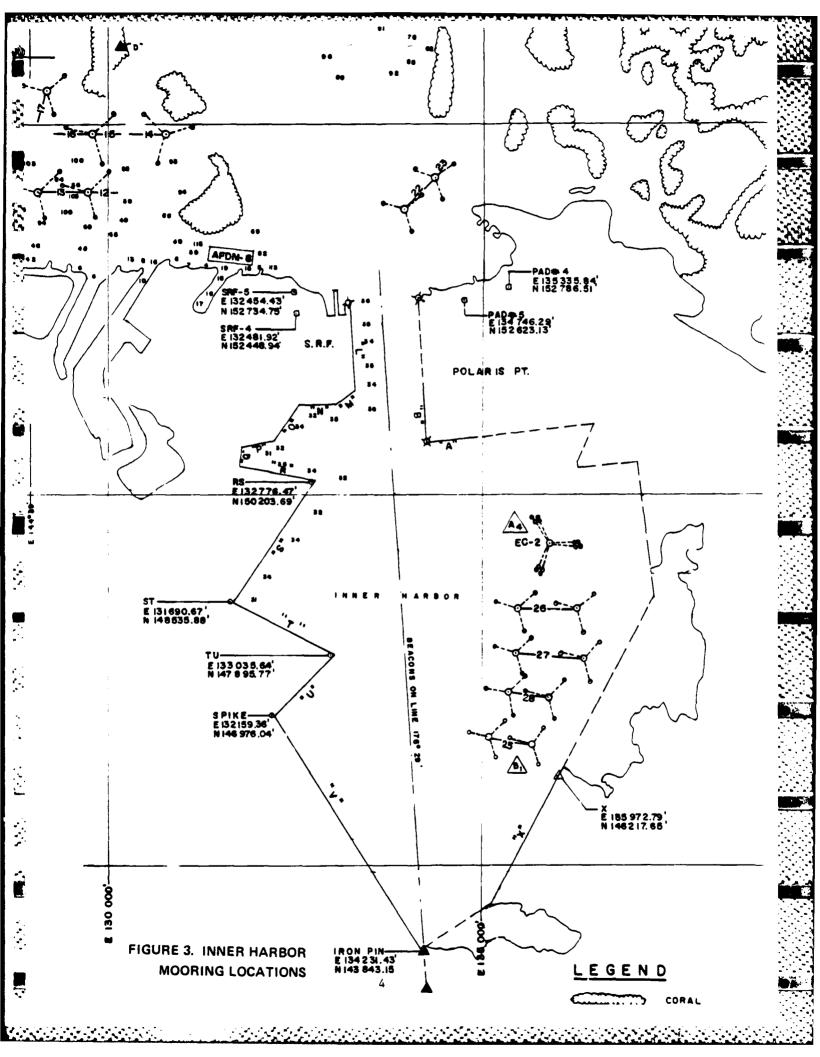


TABLE 1
PWC GUAM FLEET MOORINGS

Mooring Number	Mooring Class	Water Depth (Ft)	Date Installed	Date Last Overhaul	Reported Condition	Date Next Overhaul	Type Ships Moored
951	AAT	130	12/59	6/82	FAIR	6/88	AS-19
701	BR	125	4/59	1/81	GOOD	1/86	AFS-7
702	AR	150	6/57	2/82	GOOD	2/85	AFDL-21
703	BR	140	6/57	2/82	GOOD	2/87	
704	ER	125	10/69	1973	POOR	4/84	-
501	BR	160	7/57	3/82	GOOD	3/87	-
25W	BR	36	4/53	2/81	GOOD	2/86	22 Cape Class
25E	BR	36	4/53	2/81	GOOD	2/86	YTB
26E	BR	32	9/53	3/82	GOOD	3/87	YTB
26W	BR	32	9/53	3/82	GOOD	3/87	SWOB
27E	BR	37	9/53	4/82	GOOD	4/87	_
27W	BR	32	9/53	4/82	GOOD	4/87	30 Balsam Class
28E	BR	36	9/53	9/82	GOOD	9/87	YFN, YC
28W	BR	36	9/53	9/82	GOOD	9/87	YPD
22	BR	70	9/53	8/82	GOOD	8/87	YON
22/23	BR	58	9/53	8/82	GOOD	8/87	-
12/13	DR	105	-	7/82	GOOD	7/87	-
13	DR	97	-	7/82	GOOD	7/87	-
14	DR	97	10/53	6/82	GOOD	6/87	YC
15/16	DR	97	10/53	9/82	GOOD	9/87	YTB
17	DR	69	9/53	5/82	GOOD	5/87	YON

NOTE: Mooring historical data provided by PWC GUAM, April 1983.

Chain wire diameter measurements are used to evaluate the condition of a mooring. After cleaning to bare metal, a selective sampling of the wire diameter of chain links and connecting hardware was taken in order to determine the amount of deterioration due to corrosion and wear. "Single link" measurements were taken where chain was slack to detect corrosion loss. "Double link" measurements were taken where two links connected under tension to detect the combined effects of corrosion and wear. Chain links and other components which measured 90 percent or greater of original wire diameter are considered to be in "good" condition; measurement between 80 percent and 90 percent of original diameter is considered "fair" condition and is cause for the mooring to be downgraded in classification; any measurement less than 80 percent is considered "poor" and is cause for the mooring to be declared unsatisfactory for fleet use.

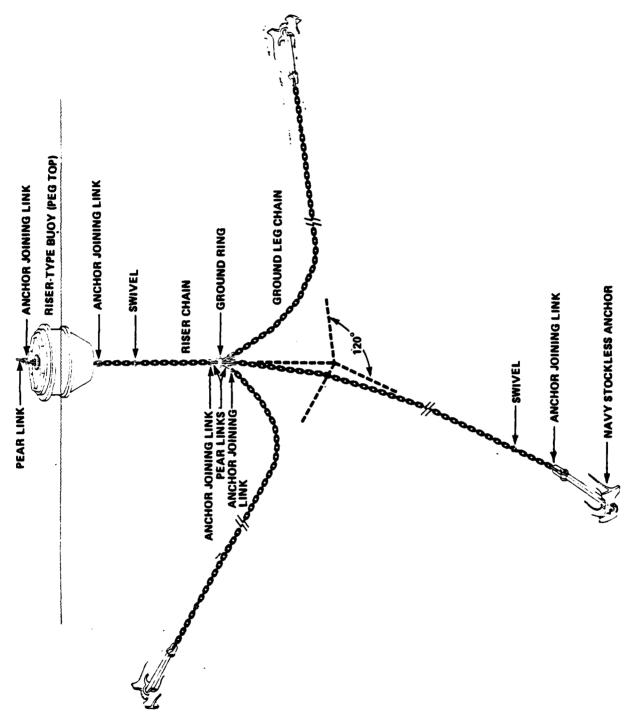
Standard underwater inspection procedures do not call for the inspection of any part of the mooring which has been buried or which is below a water depth of 130 feet—if scuba gear is used. Ground legs and risers were observed only to the point at which they became buried; no attempt was made to locate and inspect anchors or other mooring materials which were not readily visible. For clarification, schematic drawings of typical riser and telephone type moorings are shown in Figures 4 and 5 respectively.

#### 2.2 Buoy.

2.2.1 <u>Buoy Topside.</u> Each buoy was inspected to determine its general condition. The buoy markings were checked for conformance to those noted in applicable charts. Physical damage such as holes, dents, or listing was described. The fiberglass was inspected for cracks, wear, peeling, or rust-bleeding. Hatches, openings, and penetrations were examined and worn material and rust were reported.

The buoy fenders and chafing rails were checked for integrity and secure connection to the buoy. Buoy top jewelry was measured with calipers to find the overall outside dimensions and areas of most severe reduction in wire size.

- 2.2.2 <u>Buoy Lower Portion</u>. Divers inspected the buoy below the waterline. The thickness of marine growth was recorded, 1-foot-square areas were selected and cleared of growth without damaging the fiberglass, and the condition of the fiberglass was noted.
- 2.3 Riser. To determine chain wear, each riser chain was inspected by taking three consecutive double link measurements, using precut gauges and/or calipers, at both ends and at the center of the riser. To determine original chain size, divers took single link caliper measurements of the wire diameter. Divers also documented the type of hardware connecting the riser chain to the sinker.
- 2.4 <u>Ground Ring.</u> When visible, the ground ring was examined for general and localized wear. Caliper measurements were made of the wire size in the region of most severe wear and across the inner diameter.
- 2.5 <u>Ground Legs.</u> To determine chain wear, three consecutive double link measurements were made at both ends and at the center of each leg until the chain was



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FIGURE 4. TYPICAL RISER-TYPE MOORING

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FIGURE 5. TYPICAL TELEPHONE-TYPE MOORING

buried in the seafloor. Where a segment of chain was resting on the bottom and was not in tension, single link measurements were taken instead of double link measurements. To determine original chain size, divers took single link caliper measurements of its wire diameter.

**2.6** Anchors. No anchors were sighted during the course of the inspection.

#### 3.0 INSPECTION SUMMARY

An in-depth discussion of the inspection results is presented in Annex A. Annex B contains photographs, and Annex C contains a copy of the preliminary report of the results of the inspection.

The data gathered during the inspection indicates the following:

- o Of the 22 moorings inspected, 20 are in satisfactory condition for continued use at their current mooring classification level.

  Although usable, the other two require some maintenance rework.

  Table I presents the status of the PWC Guam fleet moorings.
- o The riser chain of Mooring 704 is badly pitted and its buoy is in need of repairs.
- o Although its components and assemblies are in good condition, the riser chain of Mooring 22 is entwined with about 40 feet of extraneous 2-inch wire rope.
- o The material condition of Mooring 12/13 is good, but the orientation of its ground legs is questionable. Magnetic bearings of these three legs from the ground ring were found to be 029, 031, and 215 degrees.
- o The top jewelry of Mooring 17 includes a shackle with a measured wire diameter of 1 1/2 inches. This is undersized for a class D mooring, which requires the wire size of all components to be a minimum of 2 inches.
- o Buoy 28E is badly rusted, has a bent and rusted chafing rail, and has sustained some collision damage.

TABLE I

## INSPECTION SUMMARY

MOORING NUMBER	MOORING CLASS	CON	DITION FAIR	POOR	REMARKS
EC-2	CCR (MOD)	_			
951	AAT	<b>1</b>			
701	BR	-			Oversize riser chain (2 3/4-inch)
704	ER		1		Riser badly pitted. Mooring needs to
			ļ		be overhauled.
702	AR	<b>✓</b>			
703	BR	<b>~</b>			Riser only inspected to a depth of 100
					feet
22	BR				About 40 feet of 2-inch wire rope is
	'				entwined with riser chain
22/23	BR	~			
501	BR	<b>1</b>			Riser only inspected to a depth of 100
					feet
25E	BR	<b>1</b>			
25W	BR				
26E	BR				
26W	BR				
27E	BR	<b></b>	4.		Buoy has a 2-foot-wide, 2-inch-deep
					dent in hull
27W	BR	<b>1</b>			
12/13	DR	-			Orientation of the ground legs is questionable
13	DR	-			
14	DR				
15/16	DR	-			
17	DR				Divers only inspected mooring to the
					ground ring. Undersized shackle used
					in top hardware.
28E	BR				Buoy needs refurbishment
28W	BR	1			
	TOTALS	20	2	0	
j		١.	}	1	

- o The ground legs of half of the mooring systems (11 of 22) were completely buried in the bottom and inaccessibile for inspection.
- o None of the buoys or risers have cathodic protection systems. Although the ground legs of Mooring 27W are purported to have a cathodic protection system, the legs are buried and the presence of such a system could not be verified.

#### 4.0 COMMENTS/RECOMMENDATIONS

As a result of an analysis of the data collected during the inspection, the following comments/recommendations are pertinent:

- o In view of the deep pitting of its riser and the fact that Mooring 704 was previously downgraded from a class A to a class E mooring, recommend that this mooring be overhauled at the earliest opportunity.
- o The wire rope entwined in the riser of Mooring 22 should be removed.
- o The orientation of the legs of Mooring 12/13 should be checked during the next scheduled overhaul, and if necessary, the ground legs and anchors reinstalled in their designed locations.
- o The undersized shackle in the top jewelry of Buoy 17 should be removed at the earliest possible time.
- o Due to the generally poor condition of its exterior, Buoy 28E should be refurbished.

#### ANNEX A

#### MOORING INSPECTION RESULTS

This Annex contains for each mooring:

- o A summation of the inspection data obtained by the CHESNAVFACENGCOM EIC and UCT TWO divers, and
- o a diver data reporting form.

# INSPECTION RESULTS MOORING EC-2

#### **Buoy**

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 40-inch freeboard. The bottom is covered with about 1 inch of marine growth and the top deck plate is rusted; otherwise the buoy is in good condition.

#### Riser

The riser is 3 1/2-inch chain. All double link measurements were greater than 90 percent of the chain's original wire diameter. There is moderate to heavy marine growth on the riser. A few feet of riser rests on the bottom before the chain enters the bottom.

#### **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a modified class CC mooring.

Ni = not inspected, inaccessible GROWTH ON BOTTON RUSTED, BUDY IN DRUH BUOY WITH HAWSEPIPE. 34 MOD TO HEAVY GROWTH, SWIVEL IN SOME CHAID ON BOTTOM PRIOR TO GOOD CONDITION. D.L. CALIPER RISER ENTERING HUD COMMENT MATERIALISM SECTIONS OF STOCKIED BUOY TYPE: 12 × 9 6" ANCHOR SIZE/TYPE: 25 × 50 CKLES BUOY TYPE: 12 × 9 6" GOOD (YOUDITION). O = depth BUDY TW PLATE FREEBARD. ROCK Visibility 5'-10' 38, ٥ 80 DOUBLE LINK % ġ CLAY CORAL 7 9 CONDITION 8 SINGLE LINK % **6**8 3/2" NEW INTERS BOTTOM Ē ONAS \_ F" SHACKLE WILDES NITES BOLLOW LNIERS BOLLOM NIERS BOLLOM NEAR GRD RG NEAR BUOY UPPER LND BINDY HARIDWARE OPPLIEND OPPER LND INPER END GHOUND HING COMPONENTS MIDDI E MIDDLE MIDDLE MIDDLE MIDDI E SHACKLE PIN PEAR LINK BOLLOM LYPE: GROUND LEG NO. A GROOMD 116 NO D GHOUND LEG NO. B CHOUND HG NO C

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## MOORING 951

#### Buoy

This is a 17-foot-diameter telephone-type buoy. The buoy is fiberglass coated and has a 17-inch freeboard. Due to this relatively low freeboard, the fender is partially submerged. The buoy bottom is covered with only a light coating of marine growth and is in good condition.

#### **Ground Legs**

The mooring contains three pairs of ground legs (six legs). Each pair of legs is connected to the buoy by a spider plate and a single short length of chain to one of three buoy padeyes. Each leg consists of 2 3/4-inch chain and all single and double link measurements were greater than 90 percent of the original chain diameter. The three spider plates are in good condition. At 100 feet, the lowest depth to which the divers descended, leg E was observed to be about 10 feet above leg F.

#### **Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class AA mooring.

NI = not inspected, inaccessible 17" FREEBARD, FENDER PADALLY SPIDER PLATE SPIDER PLATE SUBMEEGE D. LIGHT GROWTH COMMENT CLASS. AAT LOCATION: PUR GUALLAT: 13-36-51 A LONG: 144-38-137 E O = depth BEARIUG 050° M BEARING 1830 H BEARING 160°M BEARING 055 H ANCHOR SIZE/IYPE: 25 K STOCKLES BUOY IYPE: 17× 10' TELEPHOLE ON BOTTOM Visibility 50 101/ 126 ,01,7 ,01/ ,01/ 48 48 187 96 48 ٥ 2 3 ROCK 8 DOUBLE LINK % **\$**0 CLAY CORAL ĝ 7 7 CONDITION 3 SINGLE LINK % 8 43% 35" <u>6</u> 7 Q WGG 12 % 13/1/2 NA NEW Ē □ SAND DETACHARLE LIDK LNIERS BOLLOM NILES BOITOM NITHE BOILON NOTION REPORTED 130 NEAR GRU RG NEAR BUOY BUOY HARDWARE UPPER END DEPT H L ND DEPT R LND DPPER END GROUND RING COMPONENTS MIDDLE PEAR LINK MIDDI & MIDDLE MIDDLE MIDDLE MONHING NO. WATER DEPTH. HOLLOM LYPE GROUND LEG NO. A GROUND 1 EG NO C GHOUND LEG NO B RISER

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DIVERS. DEMMING. DATE 14 JUDE 83 ENGINEER IN CHARGE: A.J. DODSOL

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MOURING NO.	951	-CLASS.	Au	776	LOCAL	ION: PR	LOCATION: PUC GUAPPLATE	MA			LONG:	(CODTINUED)
WATER DEPTH:	111:		ANCHOR SIZE/LYPE:	SIZE/IY	'PE:			_ BUOY TYPE:	TYPE:_			
BOLLOM LYPE.	Pt. SAND	9	OUM		] сгау		CORAL		Пноск	Visibility.	IIV D = depth	NI = not inspected inaccessible
						CONDITION	TION					
COM	COMPONENTS	ž	NEW	SIA	SINGLE LINK %	X X	DOU	DOUBLE LINK %	% %	0	100	COMMENT
				106	₩	-08	÷06	108	-08			
HOOR	BHOY HARDWARE											
	NEAR BUOY											
HIST H	MINNE											
	NEAR GRD RG											
CHO	GROOMD RING											
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	MIDDLE			7			7				DEPTH	1EG E 15 10 ARDUR
	ENTERS BOTTOM			7			7			7%		
ONOOFS	UPPER END	22/4"		7			7		,	T	BEARING 3150	
<b>لیا</b> څووو	MIDDLE.	-		7			7		j	18		
-	LNII 61S BOTTOM	<b>\</b>		7			7		Ì	1,96		
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# INSPECTION RESULTS MOORING 701

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 45-inch freeboard. The bottom has a one-half inch coating of marine growth. There is no rusting, and the buoy appears to be in good condition.

#### Riser

The riser consists of 2 3/4-inch chain which is one-half inch larger than required for a class B mooring. All single and double link measurements were greater than 90 percent of the chain's original wire diameter. The chain was inspected and measured to a water depth of 120 feet.

#### **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class B mooring.

-	MONHING NO.	i   	701_cuass	CLASS	7	38	10CA1	ION:PR	10 GW	AH LA	13.2	6-51 1	10CATION: PULC GUAH LATIS-36-51 N LONG: 144-37-48.5 "
-	WALLRDIFILL		167	Ì	ANCHOR	SIZE/T`	YPE: 91	K 57	ATO	_ BUOY	· TYPE:	12'x6	ANCHOR SIZE/TYPE: 9K STATO BUOY TYPE: 12' K C' DRUM
_	BOLLOM LYPE	(Pt.	ONAS 🗌		MUD MUD		CLAY		CORAL		Пвоск	Visibil	Visibility $\frac{50^l}{}$ (0 = depth NI = not inspected, maccessible
	! !							CONDITION	TION				
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						106	108	. BO	÷06	80 t	-08		
	KOM	BUOY HARDWARE	RE										FREEBOARD 45" LIGHT (12 ) GROUTH
<u></u>	CHAIN	CVI			3								as BOTTOH. NO BUOY RUST
	DETA	DETACHABLE LICK	JOH :		3,								
	PEAK	PEAR LINK			/2k#								
	DETA	DETACHABLE LIDK	YON.		3/4"								
		NEAR BUOY	ЮY		234"	7			7			- 8	5.4, 2%" D.L 5""
	RISER	MIDDLE				7			7			208	
		NEAR GRD RG	10 EG		<b>&gt;</b>	7			7			130	
	H10	GROUND RING											
		UPPER END	G <sub>N</sub>										
	0N0010	MIDDI E											
		ROLLES BOTTOM	BOLLOM										
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# INSPECTION RESULTS MOORING 704

#### **Buoy**

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 40-inch freeboard. The chafing rail is bent and badly rusted in some areas. The bottom of the buoy is covered with 2 to 3 inches of marine growth. The fender is in good condition.

#### Riser

The riser consists of 2 3/4-inch chain, which is much larger than the 1 3/4-inch chain required for a class E mooring. Although single and double link measurements indicated that the chain links were about 90 percent of their original size, there were many areas of severe pitting, with some as large as 2 inches wide and an eighth of an inch deep. This pitting reduced the available wire diameter of the chain to between 80 and 90 percent of its original diameter.

#### **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

Due to anchor system problems, this mooring was downgraded from a class A to a class E mooring by PWC Guam personnel. In addition, a measurement between 80 and 90 percent of any mooring component is normally cause for a mooring to be downgraded to the next lower class of mooring. However, in this case, the larger-than-required original wire diameter of the riser chain allows this mooring to be still capable of withstanding class E mooring loads. However, it recommended that this mooring not be subjected to loads in excess of E class load limits as defined in NAVFACENGCOM Design Manual 26. It is further recomended that this mooring be overhauled and its riser chain replaced at the earliest practical time.

MOOHING NO	NO. 704	CLASS	S.	ER	LOCATE	ON: PM	K EU	177 FW	13.26	-545	LOCATION: PUNCEUAN LAT: 13-26-545 "DLONG: 144-38-44.8"
WAILROLPHE	rm 125		ANCHOR	SIZE/TY	PE: 9K	57.6	Mo	- BUOY	TYPE: [	3,xc	ANCHUR SIZE/TYPE: 9K STATO BUOY TYPE: 13 XC DRUM W/HAUKEDIAE
BOLLOM LYPE.	YPE; SAND	Ş	OUM 🔯		CI.AY		CORAL		Пноск		Visibility $20^{l}$ 0 = depth NI = not inspected, maccessible
						CONDITION	FION				
ี้ อ	COMPONENTS	ž	NEW	Sin	SINGLE LINK %	* *	DOO	DOUBLE LINK %	*	a	COMMENT
				904	108	-08	<b>₽</b> 06	801	-08		
B110	BHOY HARIWARE										40" FREE BOARD. 2-3" growth
PEAN	PEAR LIUK		2%"								on bottom, FENDER OK, CHAFING
FSH	FISHACKLE WILLES	\ <u>\</u>	3%"								RAIL BENT AND RUSTED BADLY
											IN SOME AREAS
	NLAR BUOY		34"		7			7		10,	CHAIN MEASURED AT 2 12:
нзги	MIDDLE				7			7		45'	
	NEAR GRD AG		<b>&gt;</b>		7			7		95"	
¥5	GHOUND RING										3" DIAMETER
	OLLE END										
	MIDDH E										
	LNIERS BOTTOM										
GHOHAD	INTER LND					- !					
3 C C	MIDDI L										
	NOT BE BOTTOM										
	UPPLE LND										
501	MIDDLE										
	HALLES BOLLOM	_									
	CHALLE END										
116 116 116 116 116	MIDDLE	<del> </del>									
	H N H H S BO I FOM	<u>&gt;</u>									
										1	

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DATE 14 JUNE 8-3 INFINITION CHANGE: A.J. DODSON DIVERS: NELSON ISCHELIREA

# INSPECTION RESULTS MOORING 702

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 36-inch freeboard. The top deck plate is heavily rusted, and the bottom is covered with a thick marine growth. The fender is in good condition.

#### Riser

The riser consists of 2 3/4-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size.

## **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class A mooring.

MENNING NO		702	CLASS:	A	R	- 10CA	THON	we Ge	AH LA	11:/3-2	7.21.	LOCATION: PUC GUALILAT: 13-27-27, 4 LONG: 144-35-08,1 6
WALLRUIPILE		150'	Ì	ANCHOR !	SIZE/I	. тре: 2	K/5	1970	- BUO	/ TYPE: <u>/</u>	12×6	ANCHOR SIZE/TYPE: 9K/STATO_BUOY TYPE: 19K6 DRUM WHAKESEPIPE
BOLLOM LYPE.	,	O SAND		опи 🛛		CLAY		CORAL		П воск		Visibility 30 = depth NI = not inspected, inaccessible
	†    -  -  -  -  -  -						CON	CONDITION				
COV	COMPONENTS		ž	NEW	S	SINGLE LINK %	INK %	100	DOUBLE LINK %	NK %	O	COMMENT
					÷06	801	-08	÷06	₩	-08		
COOR	BIOY HARDWARE	i.										FREE BOARD 36," FEUDER GAD.
E SHA	F SHACKLE WILWS	luis		334"								HEAVY RUST ON TO DENK PLATING
FEAR	LINK			3 %								BUOY BOTTOM COVERED WITH HEAVY
												MARINE GROWTH.
	NEAN BUOY	λC		23."	7			7			, S	S.L 24" D.L. 5/4"
RISLH	MIDDLE				7			7			45'	3.1. 2 34" D.L. 5"4"
	NE AH GRU RG	D RG		->	7			7			95'	51, 2 34" 0.6.5/4"
)H5	GROUND RING		-									DETACHABLE LINK AT 100' DIVERS
	UPPER END	9										DID NOT SO RELOW ICC DEPTH.
1 E G	MIDDI E											
	FNILRS BOLLOM	MOLIO										
CHOINE	OPPEN CND	=										
1 E G NO E	MIDDI E											
	ENTERS BOLLOM	MOLIO										
	UPPLE END	ے	$\dashv$					1				
511	MIDEN E											
	MOLISBOLION	MOLIO										
	OPPER END	ے										
	MIDDI E											
	MOLICERTINE	MOTTO	>									
									•		•	

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DATE 14 JUNE 83 ENGINETH IN CHARGE A.J. DODSON DIVERS: #ARDING/TEUCADOW CHESNAVFACENGCOM REPORT FPR-1-83(32), "PWC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 703

### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with hawsepipe. The buoy is painted with standard colors and has a 34-inch freeboard. The lower hull is covered with about 2 1/2 inches of soft marine growth. Overall, the buoy is in good condition.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A swivel was observed at 15 feet.

#### **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class B mooring.

COMPONENTS NI  COMPONENTS NI  BUICY HARLE LUX  F SHAPKLE W/LUS  PEAR LUX  NEAR BUICY  NEAR BUICOM  LIPPER END  CHOUND  LIPPER END  CHOUND  LICO  NO A  LINIERS BUILOM  LIFT  LO CHOUND  LICO  NO C  FINIERS BUILOM  CHOUND  LICO  NO C  FINIERS BUILOM  LICO  LICO  FINIERS BUILOM  LICO   WALLEDEPIN	EPIN:	140		ANCHOR SIZE/I YPE: 9K	SIZE/I	YPE: 9	K STAND	910	_ BUOY	TYPE:	2 x C	E. 9K STAM BUOY TYPE: 12 X C" DRUM WHANSEPIPE	
COMPTON LATE WILLS BOTTON  GROUND IN THE BUTTON  GROUND IN THE BUT	101 LOM	i ype.	SAN		[X MUD	_	☐ cLA)		CORAL		ROCK	Visibil	D = depth
NI NEW SINGLELINK & DOUBLELINK								COND	ITION				
HISTH   HIDDLE   HI	ٽ 	OMPONER	SIS	ž	NEW	S	NGI E L	NK %	noa	BLE LIN	*	O	COMMENT
HISTH MIDDLE LOW 3" 3" 5" 6 F SHACKLE WALLE LOW 3" 3" 6 F SHACKLE WALLES SHACKLE WALLES SHACKLE WALLES W						90	80+	-08	ŧ0 <del>0</del>	801	80-		
PETRYABLE LUNK   3"   3"   4"   4"   4"   4"   4"   4"	3	OY HARD	WARE										FREEBOARD 34", 21/2"GROWTH
F SHACKLE W/LWS   3"   AT 15.'	DETA	HARK	E LIUK										ON BOTTOM, FENDER OK. SWIVEL
124   14   14   15   15   15   15   15   1	F 541	90KLE 1	10/LV65		30								ı
INSTITE   MATERIAL   21/2   27   27   27   27   27   27   27	PEAK	LIEK			33/								
HISTH   MIDDLE   2/5"													
HISTH   MIDDLE		NEAR	BIJOY		2%"				7			7	14
NEAR GRD RG	HIST II	ME	1 E			7			7			45'	i
GROUND 11 G 11 G 11 G 11 G 11 G 11 G 11 G 11		NEAR	GRD RG		<del>-&gt;</del>	1			7			ds'	
GROUND LEG NO B CROUND LEG NO B CROUND LEG NO C		HONON B	ING	_									
			I END										
			16										
		FNIE	HS BOTTOM										
	CHEMINE		t LND										
	5 GZ		1 £										
		I N	RS BOLLOM								_		
			EN)										
	1000		1.6										
		I N	4S BOTTOM										
			LND										
		_	I.e.										
	<u>:</u>	<u>z</u>	IS BOLLOM	7									

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INTIL 14 JUNE 83 ENGINEER A.J. DODSON DIVERS. NELWO SCHEUREN

# INSPECTION RESULTS MOORING 22

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 42-inch freeboard. The buoy has only a light marine growth (one-quarter inch) on its bottom. Buoy is in good condition.

#### Riser

Riser is 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's initial wire size. From just below the buoy, about 40 feet of 2-inch wire rope is tightly entwined with the riser chain. The riser enters the bottom at a water depth of 70 feet.

#### **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class B mooring.

ž	MONTHING NO.	22		_CLASS:_	B	BR	LOCAL	ION: PL	)C (EU	41 <i>HE</i>	1:13.2	6-37.7	10CATION: AUC (SUAHLAT: 13-36-37.7 WONG: 144-37-50, 6
*	WATERDEPHE		70,	¥	ICHOR S	12E/TY	PE: 20	K STO	3.577	BUOY	TYPE: 1	D'xc'	ANCHIOR SIZE/TYPE: 20K STOCKLESS BUOY TYPE: 12 x 6 DEUM W/ HAWSE PI PE
G	BOLLOM EYPE		SAND	<b>E</b> Z	MUD X	L.	CLAY		CORAL		ROCK	Visibil	Visibility 32' D = depth NI = not inspected, inaccessible
								CONDITION	TION				
	<b>CO</b>	COMPONENTS		ž	NEW	SIN	SINGLE LINK %	NK %	000	DOUBLE LINK %	* *	D	COMMENT
-					·	÷06	801	-08	+06	80t	-00		
	BUOY	BUOY HARIDWARE											FREEBOARD 42" FEUDER OK.
	PEA	PEAR LINK			3/4"								LIGHT GROWTH (14") ON BOTTOM.
	DETA	DETACHABLE LINK	×		3 3/1								
	CHAIN	12		, 3	238"								
_		NLAH BIJOY			3/2"	7			7			410	40' OF 2" WIRE RUPE TIGHTLY
Ξ	1112111	MIDD1 E			_	7			7			35	ENTINUED WITH OHAID.
		NEAR GRU RG	9		$\rightarrow$	7			7			70,	
A- 16	317	CHOUND HING											
		CN H H LAN											
===		MIDDLE											
		FOLLES BOLLOM	LOM										
	11171 117111	OPTER LND	<u>'</u>										
īž	110	MIDDLE											
	_ <del></del>	MOLIOR STILL	MOI	,	1								
-	The state of the	OFFER END		:	1								
==		MIDDLE			1								
	- <del>-</del>	MOLTON SHILLING	¥ :	,		1							
	Allega Maria	OFFIRING											
	110.	MIDDLE			!								
		WOLLOW SHILL	¥ C				 :						

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DIVERS. SPHEURED | RIEST DATE 11 JUNE 53 INCHAINCHARGE AJ. DODSON

# INSPECTION RESULTS MOORING 22/23

#### Buoy

This is a 10-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 32-inch freeboard. The buoy is in good condition.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A swivel was observed to be in good condition at a water depth of 15 feet, and a 4 1/2-inch ground ring was located at a depth of 40 feet.

#### **Ground Legs**

The upper 50 feet or so of three ground legs were visible. All legs were 2 1/2-inch chain and all measurements taken were larger than 90 percent of the original diameters. At their attachment to the ground ring, two of the legs are side-by-side.

#### **Anchors**

Not visible for inspection.

#### Recommendation

NI = not inspected, inaccessible 0150 BEARING 395 M 150°H SWIVEL AT 15 BEARILY BEAKING FEUDEAGODA COMMENT D1. 434" O = depth 32 MINITING NO. 22/23 CLASS. BR LOCATION: PUR GUALIAT: 13-26-439 1/40NG: 144-39' 39"E D. L. S 0.4.5 57.Q FEEEBARD 2,575 3/2" ROCK Visibility 6-50' 76 ANCHOR SIZE/TYPE: 20K STOCKLESS, BUDY TYPE: 10 4 65 DRUM 1/2 11/2 75 7:5 75 50' 3 \ \ '0 20, 9 38 *\$*0, 8 DOUBLE LINK % ġ CLAY CORAL **8**0 CONDITION 1 Ź 1 7 1 1 8 SINGLE LINK % 80 (12/2") 2%. NEW 4% ž SAND NOTERS BOLLOM MOLLOUSH HIN I 58 NEAR GRU RG NEAH BUOY BLIOY HARIDWARE CN I R LAG DPTER FND DPPLIE END GROUND RING COMPONENTS MIDDLE MIDDLE MIDDLE MIDDLE WALLED FILL BOLLOM LYPE. GHOUFB 116 NO C CINCHES GHOUND LEG NO B RISLR 2 S 2 S 2 S

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HARDING DIVERS. NELSON, DATE 11 JUNE 83 INGINITION CHANGE A.J. DEDSON

CHE SHAVFACFNGCOM REPORT FPR-1-83(32), "PUC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

ABUT 40 OF EACH GROUND LEG ARE

MOLLOS SHILLING

UNITER I NO

MIDDIA &

CHOUND 11G NO D

MOTIONSHIN

VISIBLE AND SUSPENDED AROUF THE

BOTTOH BEFORE ENTERMS THE HUD

# MOORING 501

## Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 36-inch freeboard. The bottom of the buoy has only a light coating of marine growth. Overall, the buoy is in good condition.

### Riser

The riser consists of 2 1/2-inch chain and all measurements were larger than 90 percent of the chain's original wire size. The chain was only inspected to a water depth of 100 feet.

## **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

MOOHING NO	NO. 501		-CI ASS	B	BR	10CA1	ION: PR	10 GL	JAMILA!	18.37	1.16.	OCATION: PWC GUAMLAT 13-37-31.1 / LONG: 144-37-51"E
WALLEDITH	PIN.	160'	< 	NCHORS	SIZE/T\	PE: 30.	K/57a	OKLES	∑ BUOY	TYPE: 1	2 ×6	ANCHUR SIZE/IYPE: 30K/STOCKLES BUOY IYPE: 13 KG DRUM W/HAUSCPAPE
BOLLOM LYPE	••	SAND		MUID MUID	نسا	] сгау		CORAL		Ппоск	Visibil	Visibility 40 D = depth NI = not inspected, inaccessible
							CONDITION	LION				
3	COMPONENTS		Ē	NEW	SIE	SINGI E LINK %	* ×	DOO	DOUBLE LINK %	*	۵	COMMENT
					106	108	- 980	100	801	-08		
9 5	BIRDY HARDWARE	ŧĒ										36" FREEBOARD, LIGHT GROWTH.
FSHA	F SHACKLE WILVES	1,065		3%"								FENDER GOD
PEAR	PEAC LINK			3 14"								
	NEAR BUOY	0.4		2/2"	7			7			<10,	
HISTH	MIDDLE				7			7			45"	DETROHABLE LINK AT 45'
	NEAR GRD RG	D N G		>	1		-	7			156	
	GROUND RING											
	UPPER END	g										
9000 110000 1100000	MIDDLE											
Š	FUITER BOLLOW	OLTOM										
	UPPLIE LND	a										
211	MIDDI E											
	ENTERS BOLLOM	MOLLO										
	THE REND	<b>a</b>										
911	MIDDLE			l								
	FNIERS BOLLOM	MOLIC										
	UIPLE END	<b>a</b>										
	MIDDLE											
	MOLIOS SHINI	MOLIO										
	14 June 02	60 1				4	7	,			7007	1 11 11

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DIVERS: HARDING TZUCANOW IIAH 14 JUNE 83 INGINITHIN CHANGE: A. J. DODSON

CHESMAVFACENGCOM REPORT FPR-1-83(32), "PWC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 25E

## Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 35-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 3/4-inch-diameter ground ring was found on the bottom at a water depth of 42 feet.

#### **Ground Legs**

The upper few links of three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

### **Anchors**

Not visible for inspection.

#### Recommendation

COMPTHERED   SAME   STRAIGE LINK & DOTAL   GONAL   G	MOOHING NO	į	JSE	CLASS.		BR	LOCAT	ION: PR	LOCATION: PUL GUAL LATE	AN LAT	=		LONG:		
NUTHER BOLTON  NOTE IN THE BOLTON  NOTE IN TH	WA 11 & 01 !	7114.	42		ANCHOR	SIZE/T)	(PE: 2	K ST	DOKTE	£\$BUOY	TYPE: 1	3×6	DEUM W/HA	WEFIPE	
NEW   SINGLE LINK & DOUBLE L	VI WOLLON	VPE.	SAN	6	M.M.				CORAL		воск	Visibil	1,05-1 M	yıdap → Q	NI = not inspected, inaccessi
NEW SINGLE LINK	I							COND	ITION						
100   100	COA	MPONENI	s	ž	NEW	SII	NGLE LI	NK %	DOUE	BLE LIN	× %	ď		100	MMENT
LIUK   23%						÷06	108	-08	100 100	801	-08				
LIME   3%	BUON	Y HARIDW.	AHE										FREEBOAK	:> 35"	FENDER GOOD
P. ZOLOLUS LIDIK   25°	PEAR	LINK			24										
NEARTHURY   3/2"   1	ANCHOL	t John	16 LINK		23										
NEATH BLOY   3/5"   1	!														
NEAR BUOY   35"   1															
MIDDLE		NI AH B	UOY		2,2	7			7			410,			
HEAR GRID RG	HISTH	MIDDLE				1			7			-28			
UPPER FUND   23/2		NEAR G	HD RG		<i>→</i>	1			7			43,			
UPPERFORD   2/2	)H9	NIII (INI)	91		434	7						42,			
MIDDLE   1972		UPPER	ON		2/2	1			7			43'	04.5"	BEARIA	UG 030°H
INTERSECUTION         3/2         C         443         D.L. S."           MIDDLE         10/2         C         443         D.L. S."           MIDDLE         10/2         C         453         D.L. S."           MIDDLE         10/2         C         C         453         D.L. S."           MIDDLE         10/2         C </td <td></td> <td>MIDDLE</td> <td></td>		MIDDLE													
UPPEREND   3%   1		INITHS	BOLLOM												
MIDDLE INTERSECTION MIDDLE INTERSECTION UNTILES BOTTON MIDDLE INTERSECTION MIDDLE MIDDLE MIDLE MIDDLE MIDLE MIDDLE MIDDLE MIDL		UPPLIRE	(IN		2%	7			7			43,	DL. 5"	BEARIA	Mo KSOM
FALL IS BOLLOM   2/2   V   42'   D.L. 5"	9 2	MIDDLE													
MIDDLE MIDDLE 2/2 C 42' D.L. 5"  MIDDLE INTERS BOLLOM  MIDDLE HALID  MIDLE HALID  MIDDLE HALID  MIDDLE HALID  MIDL		INIIIS	MOLION:												
MIDDLE TAND MIDDLE FAILUS BOLLOM	A STATE OF THE STA	T H TAAL	S		2/2	7			7	•		42,		BEARI	UG 300 H
	116	HOOM		 											
	;	INIERS	BOLLOM						-						
			Î												
		_													
	<u> </u>	: H H H	HOLLON												

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CHISMAVEACEMICOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT," 10 JUNE 83 I MUINITH IN CHARGE A.J. DODSON DIVERS DEHING REIST HVH

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# INSPECTION RESULTS MOORING 25W

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 35-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 1/2-inch diameter ground ring was found on the bottom at a water depth of 41 feet.

### **Ground Legs**

The upper few links of three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

#### **Anchors**

Not visible for inspection.

#### Recommendation

COMPONENTS  BUOY HARDWARE	: 						1	<b>!</b> :		
VENIS HIDWAI										AMAZINAN SIZEZI II C. CKIT.
BUOY HARDWARE		CIOWAND CO		CLAY		CORAL		Пвоск	Visibili	Visibility 51 D = depth NI = not inspected, inaccessible
BUOY HARDWARE					CONDITION	LION				
BUOY HARDWARE	ž	NEW	SIN	SINGLE LINK %	% %	DOUB	DOUBLE LINK %	*	a	COMMENT
BUOY HARDWARE			÷06	108	-08	+06	90+	-00		
Perminant 1111										38" FELEBOAED, FENDER GOOD
Dernou soit 1111					-		-			
CIMHABLE LINK		<b>,</b> 10	1							
NEAH BUOY		2%	7			7			410,	SWIVEL AT 7'
RISER MIDDLE		_	7			7			30	
NEAR GRD RG		->	7			7			40,	
CHOUND HING		4/2"	7						41,	
UPPER END		2%	7			7			. 14	BEARING 080° H
DICTION MIDDLE										l
ENIERS BOLLOM						-				
CHAIRING CHAIRENE		2/2"	7			7			41.	BEARING 160 M
LEG MIDDLE										
LNILRSBOITOM										
UNDER END		z//c	11			7			41,	BERING 350 M
1 FG MIDDLE										
FNIERS BOFTOM										
LIPPLE END										
116 MIDDLE										
MOLIORSHOLLON					-					

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DAIL DOUE ST ENGINETH IN CHANGE: A. J. DODSON DIVERS: TORPEUS/WELSON

CHESHAVFACENGCOM REPORT FPR-1-83(32), "PMC GUAM FLEET MORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 26E

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 45-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 1/2-inch-diameter ground ring was found on the bottom at a water depth of 37 feet.

### **Ground Legs**

The upper few links of three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

#### **Anchors**

Not visible for inspection.

#### Recommendation

MONTHING NO.	** ZGE	CLASS	SS	BR	1	SATION	PWC	GUA.	MLAI	े इस्	14.2	10CATION PUR GUANTLAT: 13:25-46,2 "LONG: 149-46-14.1"
WALL ROLPINE	38,		ANCHO	A SIZE	:/TYPE:	30K	STack	7.655	BUOY	<u> У</u> :ЭЬК1	1'x6'	ANCHOR SIZE/TYPE: JOK STOCKLESS BUOY TYPE: 13' x6' DEUM WHAKE PIFE
BOLLOM LYPE	YPE: 🔲 SAND	GN	MUD X	2	CLAY	LAY	CORAL	RAL		Пвоск	Visibi	Visibility $\frac{1}{2}$ $1$
						2	CONDITION	Z				
100	COMPONENTS	ž	NEW	_	SINGE	SINGLE LINK %	<u> </u>	DOUBL	DOUBLE LINK %	*	a	COMMENT
				8	90+ 80+		-08	•06	801	-08		
BUO	BUOY HARDWARE											FREEWARD 45" FENDER GOOD
CHAIN	CHAID LIDK		3"	,	\							GROWTH 1/2"-1"
SHACKLE	KLE		334"	7	\							
PEA.	PEAR LINK		4"		\							
	NEAR BUOY		2%"	7			_	7			/0/>	
11311	MIDDI E		_	7	7			7			30'	SW111EL AT 23'
	NEAR GRD RG		$\rightarrow$	•	7		7	7			37'	
CHE	GROUND RING		4/2"		7						37'	
	DPPER END		2%"		7		7	7			,88	GEARING 080°M
	MIDDLE											
Y	ENTERS BOTTOM	¥										
CHANGE	HPPER END		2/2"	7	\		,	7			38'	1559 WW 1650 M
166	MIDDLE							l				
:	LNIEBS BOTTOM	Σ										
	UPPLINEND		3/2"		7		7	7			38'	BEARING 300 M
	MIDDLE											
د د		_		1								

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DATE 10 TONE 83 ENGINETH IN CHANGE A. J. DODSON DIVERS. WELSON

MOTTOR

FINITIES BOTTOM

DPPER END MIDDLE

GROUMD LEG RO D CHESHAVFACEMICOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOHRING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 26W

### **Buoy**

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 45-inch freeboard. The general condition of the buoy is good.

### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 9/16-inch diameter ground ring was found on the bottom at a water depth of 38 feet.

### **Ground Legs**

About 10 feet of each of the three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

### **Anchors**

Not visible for inspection.

#### Recommendation

MATH HILPHIL 38 ANCHOR SIZE/TY HOTTOM TYPE. SAND MAUD BURDY HARIDWARE  CHALD LLUX 3/" SHACKLE  SHACKLE  GIGHNIN HISLH MIDDLE HOTH REND GIGHNIN HISLH MIDDLE HOTH REND GIGHNIN HODLE NO C FINITHS BOTTOM GIGHNIN HODLE H	MCHOHING NO :	10. 26 W CLASS	CLASS		BR	LOCAT	DN:PU	7C G	MAN	1.13.28	# 27	LOCATION: PWC GUANAT: 13-25-46-2 1/400NG: 144-40-14.1"E
COMPONENTS   NI NEW SINGLE LINK & DOUBLE L	WALLEDLE		Ì	ANCHOR S	SIZE/T)	re: 30	X	XKIE	Xauoy	TYPE:	2 KE	DRUM WHAWSEPHE
COMPTION  COMPTION  BUOY INAIDWANE  CHALL LINK  SLARCKLE   NOLION IX			OOM X		] сгау		CORAL		ROCK	Visibil	D = depth	
COMPONENTS   NI NEW SINGLELINK & DOUBLELINK & DOUBLELIN							COND	TION				
HISTH   MIDDLE   24   10   10   10   10   10   10   10   1	*CO	PONENIS	ž	NEW	S	NGLE LI	X X	noa	BLE LIN	* *	a	COMMENT
120 LWK					90	80.	- 98	•00	100	-08		
CHALL LINK 3"  SLARKLE 3%  NEAH BUOY 3%  GHOUND HING 4%  GHOUND HING 4%  GHOUND HING 4%  CHOUND HING 4%  CHOUND HING A3%  CHOUND AND HING A3%  CHOUND HING HOUSE  NOTH HEND A3%  CHOUND AND HING HOUSE  HILG  NO C ANTERS BOTTOM  CHURH HEND  CHOUND AND HING HOUSE  HILG  NO C ANTERS BOTTOM  CHURH HOUSE  HILG  NO C ANTERS BOTTOM  CHURH HOUSE  HILG  NO C ANTERS BOTTOM  CHURH HOUSE  HILG  HILG  NO C HULLIS BOTTOM  CHURH HOUSE  HILG  HIL	COCIA	HAHDWARE										45" FREEBBARD, GROWTH 1/5"-1".
SMACKLE 3\%''    NEAH BHOY 3\%'' \cdot \cd	CHA	IN LINK		3"								
HISLII   MIDDLE	5H/	RKLE		3%"								
NEAR BLIOY   35"   C   20'												
HISCH MIDDLE 22" C C 30" 1 20" C C 38" C C C 38" C C C C C C C C C C C C C C C C C C C												
HISLH MIDDLE  MEARGRID RG  GHOLING  LITCHIND  LICH MIDDLE  MIDDLE  MIDDLE  LICH MIDDLE  MIDDLE  LOTTERS BOTTOM  GHOLING  LICG  MIDDLE  NO. C. HULLES BOTTOM  GHOLING  HITCH  MIDDLE  NO. C. HULLES BOTTOM  HITCH  HITCH  MIDDLE	NEAR BUOY		3/2"	ļ			7			<10'		
NEAR GILD RG   198   1	HISTH	MIDDLE						7			30'	2 34" SWIVEL AT 23'
GHOUND HING   4%   18   18   18   18   18   18   18   1		NEAR GRD RG		$\rightarrow$	7			7			38	
Oliver of the control of the contr		UND RING		4%							38,	22" DIAMETER
MIDDLE		DPPEH END		3/2"	7			7			38'	BENEWG 080'H
UPPLE BOTTOM   3.1/4.7   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   38   1.   1.   1.   1.   1.   1.   1.   1		MINN E										
UPPLE LND         2½"         V         38"           MIDDLE         1         1         38"           UPPLE END         2½"         V         38"           MIDDLE         INTERSECTION         38"         INTERSECTION         38"           MIDDLE         INTERSECTION         INTERSECTION         INTERSECTION         INTERSECTION         INTERSECTION	£	ENITERS BOLLOM										
MIDDLE LILLER BOTTOM  MIDDLE HALLES BOTTOM  MIDDLE HALLES BOTTOM  MIDDLE HALLES BOTTOM  MIDDLE HALLES BOTTOM		OPPLE END		24"				7	-		38	BEARWG 1654
UPPLIE BOTTOM  UPPLIE END  ARIDOLE  FINITHS BOTTOM  UPPLIE LND  MIDDLE  FINITHS BOTTOM	9 5	MIDDLE										
UPPLIREND  MIDDLE HAILES BOTTOM HAPLE	-	LNIERS BOTTOM										
MIDDLE HALLES BOT LOM		UPPLR END		2/2"				7			38'	
UNPER END MIDDLE FNIERS BOLLOM		Milbor E										
MIDDLE I NITHS BOLLOM		FNIERS BOTIOM										10 OF EACH GROUND LEG-
												VISIBLE
							ĺ					
		MOTIONSHINE									-	

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DIVERS: AUSTIN / SCHEUREN CHESNAVFACENGCOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,". DATE 10 JUNE 831 NOINTH IN CHANGE AT. DODEN

# INSPECTION RESULTS MOORING 27E

### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 38-inch freeboard. The buoy hull has a 2-foot-wide, 2-inch-deep dent just below the fender. However, there is no rust and the fiberglass covering the dent is still intact. There is only a light coating of marine growth (one-quarter inch) on the buoy's bottom.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 1/2-inch diameter ground ring was found near the bottom at a water depth of 30 feet.

### **Ground Legs**

The upper few links of three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

#### **Anchors**

Not visible for inspection.

#### Recommendation

MOOHING NO.:	NO: 27E	-CLASS:	7	38	_10CAT	JON PW	c Gu	4M LA	1: (3.2)	5.39.6	LOCATION: PUR GUAM LAT: 13-25:39.6 MONG: 144-40-14.9 E
WATER DEPTIE	PHI: 31'		ANCHOR	SIZE/I	YPE:30	K STD	CKIES	ž. BUOY	TYPE:	3×6	ANCHOR SIZE/TYPE. 20 K STOCKLESS, BUOY TYPE. 13 X 6 DRUM WITHWEEPIPE
BOTTOM LYPE:	YPE: SAND	G	MUD X	_	CLAY		CORAL		Пвоск	Visibility _	$\frac{2}{11}$ D = depth NI = not inspected, inaccessible
						CONDITION	TION				
<u> </u>	COMPONENTS	ž	NEW	S	SINGLE LINK %	NK %	DOO	DOUBLE LINK %	% %	a	COMMENT
				90	804	-08	+06	80+	-08		
810	BHOY HARIWARE										38" FREEBOARD. FIBERGLASS.
											BOOY HULL HAS 3 OIGHETER
											2" DEED DEUT NEAR FRUDER
											(FIBERGLASS INTACT. LIGHT (14")
											<b>БЕОШТН.</b>
	NEAR BLOOY		25"	7			7			,01>	
RISER	MIDDLE		_	7			7			30,	
	NEAH GHD RG		<del>-&gt;</del>	7			7			30	
CHE	GHOUND RING		4/2"							30,	LEGA BEARING 035 M
	UPPER END		2%"	7			7			31,	FEW FEET OF EACH GROWD
	MIDDLE										LEG UISIBLE BEFORE
	ENTERS BOTTOM										FUTERIUS BOTTOM.
	UPPER END		25"	7			7			3/,	BEARING 155 M
1 EG	MIDDLE										
	CNIERS BOLLOM										
	UPPER END		21/2"	7			7			3,'	BEARING 300 H
)   	MIDDLE										
	FNIERS BOTTOM										
	OPPER END										
	MBD) E										
	INIERSBOILOM										
	in This Pr			:	d		10000		<i>F</i>	7.7.7	10/0/10/

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DATE 10 JONE 83 ENGINEER IN CHARGE: A.J. DODSON DIVERS. DEMING REISY

CHESHAVFACENGCOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 27W

#### Buoy

This is a 12-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 37-inch freeboard. There is some rust on the chafing rail but the general condition of the buoy is good.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 3-inch-diameter ground ring was found near the bottom at a water depth of 38 feet.

### **Ground Legs**

The upper few feet of each of three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

### **Anchors**

Not visible for inspection.

#### Recommendation

MOUNTING NO.	į	27W CLASS	CLASS		BR	_10CA1	TION	30 G	VAMILA	1.13.2	5-40.4	LOCATION PWC GUAPLAT: 13.25-40, 4 WLONG: 144-46-05,8 "
WALLRIDEPINE	P114:	40,		VNCHOR S	NZE/T	YPE.2	KST	CKLES	S BUOY	/ TYPE:/	13×6'	ANCHOR SIZE/TYPE. JOK STOCKLESS BUCY TYPE: 12 x 6 DRUM WITHWEE APE
BOTTOM 1YPE		SAND		MUD MUD		CLAY		CORAL		П воск	Visibi	Visibility 6-10 D = depth NI = not inspected, inaccessible
							CON	CONDITION				
3	COMPONENTS		Ē	NEW	S	SINGLE LINK %	INK %	100	DOUBLE LINK %	% XZ	a	COMMENT
					•06	80•	-08	90+	80+	-90		•
8008	BUOY HARDWARE	RE										37" FREEBOARD, RUSTON
"F" S#	F SHACKLE			3%"								CHAFING RAIL. FENDER 600D
PEAR	PEAR LINK			3%"								
	NEAR BLIOY	0٨		2/2"	7			7			<10.	D.L. 5"
RISER	MIDDLE				7			7			30'	0.4 5"
	NEAR GHU RG	D RG		<b>→</b>	1			7			,88	
25.0	GROUND HING	, .		3,:							,86	
	UPPER END	<b>a</b>		275"							40,	SEARING 055 H D.L 4 34"
	MIDDI E											
	ENTERS BOTTOM	HOLLOW										
CHOHND	UPPLA END	<b>=</b>		"4/2							<i>'</i> O#	BEARDS 180°H D.L. 45/4"
1 E G	MIDDI E							٠				
	LN1LRS BOTTOM	MOLION										
	UPPER END	<u>_</u>		2/2"							160,	BEARWS 290 M D.L. 4 74"
3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MIDDLE											

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DIVERS: BRADSHAW (TZUCANOW) DALL 10 JONE 83 ENGINEER INCHARGE: A.I. DODSON

MOTIONER

HITHS BOLLOW

MEDDIE

CHESHAVFACENGCOM KEPORT FPR-1-83(32), "PWC GUAM FLEET MOORING UNDERNATER INSPECTION REPORT,"

LEGS WERE NOT VISIBLE FOR INSPECTION

ANDRES PURPLETEDLY ON GROUND

DUETO BURIAL IN HUD

FEW FEET EACH LEG

# INSPECTION RESULTS MOORING 12/13

#### Buoy

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 18-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2 -inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A  $4\,1/2$ -inch diameter ground ring was found on the bottom at a water depth of 98 feet.

## **Ground Legs**

The upper 10 feet of each of the three ground legs were visible before the chain entered the bottom. All three legs were 2 -inch chain and all measurements were larger than 90 percent of the original wire diameter. The leg bearings are 029, 031, and 215 degrees, although a 120-degree separation of the ground legs is desired.

#### **Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class D mooring. However, the orientation of the ground legs should be checked during the next overhaul and these legs reinstalled if required.

MOUNTING NO.	M) /2	12/13	CLASS	7	SR	10CA1	ION PR	C KUA	HIA	1.13.2	- 41 N	10CATION: PINC KUAH LAT: 13-26- 41 N LONG: 144-39-026 "
WALLROFFILE		,86	<	INCHOR 5	SIZE/T	YPE: 20,	K STA	ceces	∑auoy	түре:9	1,16,2	ANCHOR SIZE/I YPE: 20K STOCKLESS BUOY TYPE: 9 K 6 DRUM N/HAWSEPI PE
BOLLOM LYPE	YPE	☐ SAND		OTHW X		CLAY		CORAL		Пвоск		Visibility $\frac{40^{l}}{1000}$ D = depth NI = not inspected, inaccessible
							CONDITION	TION				
ಕ 	COMPONENTS		ž	NEW	Š	SINGIE LINK %	NK %	nou	DOUBLE LINK %	ž š	a	COMMENT
					ē	<b>80</b>	<b>8</b>	ė	<b>80</b>	-90		
8	BLOY HARDWARE	нE										FREE BLARD IR" FEUDER GOOD
PEA	PEAR LINK			274.								1 "GROWTH ON BOTTOM
"F"SH.	"F" SHACKLE W/WS	1005		18/2								
(PIN)	(FIN) SHACKLE	E		218.								
	NEAR BLIOY	07		ير	7			7			-00	
RISER	MIDDLE				7			7			45'	
۸	NEAR GRU RG	D RG		7,7	1			7			92.	
-34	GROUND HING			47,"							,86	34 "DIAMETER
	LIFFER END	G		", "	7			7			,8%	BEARING 034°H
	MIDDLE											!
	ENTERS BOTTOM	MOLLOW										
CHOIM	UPPLN END	G		ָ ה	7			1			,86	BEARING 03. H
1 CO	MIDDLE											
	ENTERS BOLLOM	MOLLOM										
	ONTH TAKE	G		", "	7			7			,86	BEARNG 2150H
	MIDDLE											
	INTERSBOTTOM	MOHO										EACH LEG VISIBLE FOR PROUT
(10000000000000000000000000000000000000	CNPLR LND	≘										10' OU BUTTON, LEGS VERY TAUGHT
971	MIDDLE					_						

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DIVERS: TZUCANOW SCHEUKEN 13 JUNE 83 ENGINEER IN CHARGE: AJ. DODSON 11

INTERSTOR

CHESMAVEACENGCOM REPORT FPR-1-83(32), "PWC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 13

#### Buoy

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 32-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 1/2-inch-diameter ground ring was found on the bottom at a water depth of 105 feet.

## **Ground Legs**

The upper few links of three ground legs were measured with calipers. All three legs were 2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

#### **Anchors**

P

Not visible for inspection.

#### Recommendation

Compose of the particle of t	MOORING NO.	NO. 13		CI ASS.	DR	31	CATION	PWC	GWAL.	£LAT	13°2	42,	LUCATION PUL GUAH LAT: [3-36-42 1/2 LONG: 144-39 - 01 "E
	III H DE	!	7,	ANCHE	SIS SIZ	E/TYPE	sok :	racki	1655	BUOY	TYPE: 2	7 7 N	EVM W HAWSE PIPE
NEW   SINGLE LINK	WOLL		SAND	×	g		LAY	00	RAL		ROCK	Visibil	D = depth
NEW   SINGLE LINK							C	DINDITIC	NO				
11   12   12   13   14   15   15   15   15   15   15   15	8	MPONENIS	ž —		*	SING	E LINK	*	DOUBL	LE LINF	*	a	COMMENT
					<u> </u>				+0(	80+	-08		
KKEE W   W65   3\frac{3}{3}\]	BUO	Y HARDWARE											FREEBOARD 31", FELLDER GODD. 1"
1	"F"S#	ACKLE WIL	3	23	-5:40				-				GROWTH ON ROTTUM.
NEAR BUOY  NEAR BUOY  NEAR GRD HG  NEAR GRD HG  NEAR GRD HG  NEAR GRD HG  NIDTE  LUPLH END  NIDTE  LUTTER BUTTOM  NIDTER BUTTOM	PEAR	7(17)	!	2,0	2 "								
NEARBUOY  2 "					<u> </u>								
NEAR BLIOY								<u>.</u>					
MIDDLE  NEAR GRU NG  NEAR GRU NG  NIPLE RIND  NIPLE RIND  NIDDLE  LINER BUTTOM  UPPLE RIND  UPPLE RIND  NIDDLE  LINER BUTTOM  UPPLE RIND  U		NEAR BUOY		7	"	\		7	\		•	1017	
NEAR GRU HG  NEAR GRU HG  NIND HING  NIND HE  LINTERS BOTTOM  NIDD LE  LINTERS BOTTOM  NID LE  LINT	HSL H	MIDDI E		-	7			•	7			50,	
UPPLIETE BOTTOM       2"       105         MIDDLE       105         MIDLE       105         MIDLE <td></td> <td>NEAR GRU</td> <td>98 98</td> <td><del>y</del></td> <td></td> <td></td> <td>_</td> <td>7</td> <td>7</td> <td></td> <td></td> <td>,501</td> <td>SWIVEL AT 83'</td>		NEAR GRU	98 98	<del>y</del>			_	7	7			,501	SWIVEL AT 83'
UPPLIES BOTTOM         2"         V         105"           MIDDLE         2"         V         705"           MIDDLE         V         705"         105"           MIDDL	3	OUND RING		7/7	-7							105	
MIDDLE         Quipties         C         1051           MIDDLE         LINITIAS BOLTOM         Quipties         C         1053           MIDDLE         LINITIAS BOLTOM         Quipties         C         1055           MIDDLE         LINITIAS BOLTOM         C         1055           MIDDLE         C         C         1055           MIDDLE         C         C         C				ત	ξ.	7		7	7			105,	BEARING OTO H
UPPLIES BOTTOM													
UPPLIE END         2"         V         105           MIDDLE         2"         V         (65')           UPPLIE LND         2"         V         (65')           MIDDLE         V         (65')           INTERSIOTION         V         (65')           MIDDLE         V         V           INTERSIOTION         V         V           MIDDLE         V         V           INTERSIOTION         V         V	<b>(</b>	LNIERS BOI	IOM						<u> </u>				
MIDDLE LINIT RISBOTTOM MIDDLE LINITHS BOTTOM UIPT IA LND MIDDLE LINITHS BOTTOM UIPT IA LND MIDDLE LINITHS BOTTOM	CHAINING	UPPER END		7				7	\			105	1
LNIT RS BOLTOM         2."         C         (lost)           MIDDLE         1095         1095           FNIT RS BOTTOM         1095         1095           MIDDLE         1095         1095           MIDDLE         1095         1095           FNIT RS BOLTOM         1095         1095           MIDDLE         1095         1095           FNIT RS BOLTOM         1095         1095	50.5	MIDDLE											l
UPPLE LND         Q."         C         (05"           MIDDLE              UPPLE LND              MIDDLE              LABS BOTTOM              MIDDLE              INTERSECTION	:	LNILBSBOL	rom										
	400000000000000000000000000000000000000			ス		7		4				105'	BEARING 370 H
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ĝ		I NIT HS BOI	MOI	į									
2						-							
	<u> </u>	I WILES BOI	WOI										

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TORREUS DIVERS DEMINUE 83 INGILIER IN CHARGE: AT DODSON DAIL 13 JUNE

CHESHAVFACENIGCIM REPORT FPR-1-83(32), "PWC GIJAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 14

## **Buoy**

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 30-inch freeboard. There is a 1- to 3-inch marine growth on its bottom. Overall, this buoy is in good condition.

### Riser

The riser consists of 2-inch chain. All measurements taken were larger than 90 percent of the chain's original wire size. The riser vertically enters the bottom at a water depth of 97 feet.

## **Ground Ring/Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

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MOOHING NO	IG NO	14	_CLASS:	S	d	_1.0CA1	IION: PA	10 CG	MHIA	1:13.2	6-49.7	10CATION: PWC GOAM LAT: 13-26-49.7 MONG: 144-39-18 E
WATERDEPTHE	DEPTHE	42,		ANCHOR	SIZE/T	YPE: 20	X STO.	200	S Buov	r TYPE:	1,77	ANCHOR SIZE/TYPE: JOK STOCKLESS BUOY TYPE: 9/66' DRUM W/HAWSEPIPE
BOLLOM LYPE	ı i ype:	SAND	Q	OUM [	_	CLAY		CORAL		Пвоск	Visibi	Visibility $\frac{4o'}{100}$ D = depth NI = not inspected, inaccessible
							CONDITION	ITION				
	COMPONENTS	NIS	ž	NEW	S	SINGLE LINK %	INK %	noa	DOUBLE LINK %	4K %	đ	COMMENT
					90	108	-08	+06	80t	-08		
\$	BUOY HANDWARE	WAHE			_							FREEMARN 36. FELDER GOOD
F"54	HCKLE	F"SHACKLE W/LUGS		3/1"								GROWTH 1"# 3"
PEA	PEAR LINK			34"								ſ
	NEA	NEAR BUOY		<u>.</u> .	7			7			1,25	
HISER	MIDDLE	) E		-	7			7			45	
A-	NEAL	NEAR GHD RG		<b>→</b>	7			7			97,	SWIVEL AT 97"
	GROUND RING	IING	_					•				
	_	UPPER END										GROUND RING (GRAND LEGS / ANCHORS
16G	MIDDLE	), t										NOT VISIBLE.
	ENIE	ENTERS BOLTOM										
CHOINE		UPPLE END										
2 C S	MIDDLE	116										
	LNI	LNILHS BOLLOM										
VI (1.2712.)	_	UPPER END										
911 911	MIDDLE	I E										
	1 N	FNIERS BOTTOM										
		UPPLA END										
952	MIDDLE	11.										
	=======================================	INTERS BOLLOM	$\geq$									

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DIVERS. AUSTILL DATE 13 JUNE 83 ENGINETHIN CHARGE: A.J. DODSON CHESNAVFACENGCOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 15/16

#### Buoy

E

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 27-inch freeboard. Except for some light marine growth on the bottom, the buoy is in good condition.

## Riser

The riser consists of 2-inch chain. Single and double link measurements were all greater than 90 percent of the chain's original wire size. The riser enters the bottom at a depth of 97 feet.

## Ground Ring/Ground Legs/Anchors

Not visible for inspection.

### Recommendation

MOONING NO		15/16 CLASS.	CLASS		$\frac{1}{2}$	-10CA1	TION: P	तुर <i>ख</i>	AMIA	1-13-21	1-49.7	10CATION: PUC GUAMIAT: 13-26-49.7 MIONG: 144-39-08.4 E
WALLER DEPTH.		42		ANCHOR	SIZE/T	YPE: 🏄	X Siz	CKIE	£58uoy	TYPE:	1,97	ANCHOR SIZE/IYPE: DOK STOCKLESSBUOY IYPE: 9 x6 DRUM W/HAUSEPIPE
BOLLOM LYPE		SAND		MUD MUD		CLAY		CORAL		воск	Visibí	$\square$ ROCK Visibility $\frac{15^{-1}}{2}$ D = depth NI = not inspected, inaccessible
							COND	CONDITION				
ਤੌ 	COMPONENTS		ž	NEW	S	SINGLE LINK %	INK %	nod	DOUBLE LINK %	¥ %	O	COMMENT
					÷06	₩	-08	106	80 t	-08		
CHB	BLOY HARDWARE	1E										27" FREE BOARD. LIGHT GROWTH ON
DETA	DETACHABLE LIUK	[[WK		21/2	_							BOTTOM
DETA	DETACHABLE LINK	HWK		7	7							
PEAR	PEAR LINK			2%.	7							
					•							
	NLAR BUOY	ργ		۳,۴	7			7			C10'	2.4 1 4" 0.4 34"
RISER	MIDDLE				7			7			ζο'	D.L 3 34"
Δ	NEAR GRU RG	D RG		<del>&gt;</del>	7			7			, 6	D.L. 3 34"
¥9 -40	GROUND HING		-									
	UPPER END	Q										
9 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MIDDLE											
	ENTERS BOTTOM	OFFOM										
CHOUND	UPPER END	=										
910	MIDDI E											
	ENTERS BOTTOM	OTTOM										
CHAIN THE	UPPLH END	2										
911	MIDDLE											
;	INTERSBOTIOM	DITOM										
	UPPLEE	_										
	MIDDI E											
	MO1108 88 11N 1	MOLIO	>									

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DALE 13 TWE 83 ENGINEER IN CHARGE A. J. DODSON DIVERS. SPEAR BRADSHAW

# INSPECTION RESULTS MOORING 17

#### <u>Buoy</u>

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy has a 20-inch freeboard and has a light coating of marine growth on the hardware. A 1 1/2-inch shackle in the top jewelry is attached to a lug of a larger 2 5/8-inch shackle. Overall the buoy is in good condition.

#### Riser

The riser consists of 2-inch chain. Single and double link measurements were all greater than 90 percent of the chain's initial wire diameter. A 4 1/2-inch wire size ground ring was located at a water depth of 81 feet. The bottom was estimated to be about 15 feet below the ground ring.

### **Ground Leg/Anchors**

Not inspected.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class D mooring. However, since all components of a class D mooring should have, as a minimum, a wire size of 2 inches, recommend that the 1 1/2-inch shackle be removed from the top jewelry to preclude a vessel inadvertently mooring to an undersized component.

ž	MOOHING NO	17	_CI ASS	s L	SR	- 10CA	HION:	X GUI	2 Hb	(T: 13-2)	1-53.4	LOCATION ACK GUAM LAT: 13-31-55,4 1/2 LONG: 144-39-02,2 E
Ì	WATER DEPTIE	776		ANCHOR	SIZE/I	IYPEZ	K STOC	KLESS	ano.	Y TYPE:	7×6' D	ANCHOR SIZE/IYPE JOK STOCKLESS BUOY TYPE: 9 XL DEUM W HAWSE PIPE
<b>=</b>	BOTTOM LYPE	Pt. SAND	۽	MUD.		CLAY		CORAL		Пвоск		Visibility $\frac{15^{1}}{1000}$ D = dapth NI = not inspected, inaccessible
							CONE	CONDITION				
<del></del>	COM	COMPONENTS	Ē	NEW	s	SINGLE LINK %	INK %	100	DOUBLE LINK %	NK %	٥	COMMENT
					90	801	-08	<b>9</b> 6	904	-08		
	BUOY	BUOY HARDWARE										20" FREEBOARD. FENDER GOOD.
	E SHACK	F SHACKLE W/WCS		2. J. S. J.								
- '	SHAPKLE PIN	E PIN		رم								
	PEAR LINK	'vK		1%.					-			
	SHAUKLE	77.		1/2"	(ATTA		HED TO LUG OF LARGE SHACKLE	or un	16 6 Si	MOKLE		
		NE AH BUOY		ત	7			7			<10	
_	HISTH	MIDDLE		_	7			7			45'	
		NEAR GRD RG		<u>-</u>	7			7			80-	SWIVEL AT 63'
A-42	089	GROUND HING		42"							1.8	
	Chairman C	LIPPE (R END)										RING, DID NOT HEASURE LEG
<	2 C C C C C C C C C C C C C C C C C C C	MIDDLE										CHAIN DIAMETERS, HOWEVER, DID
•		ENTERS BOLLOM										GET LEG BEARINGS:
	GNICHIS	OPPLR END										LEG A 130"H
	2 CE	MIDDLE										
-		LNIERS BOLTOM										V e 31004
	(100100000	UPPER END										
	9118	MIDDLE										
•	;	FULLES BOTTOM										
		OPPLIE END		_								
	911	MHDD1 E										
		NOT HE BOTTOM	<b>→</b>				_					

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DIVERS: DENHING 83 INGINITH IN CHANGE: AT DOSON 11 13 JUNE

CHESMAVFACENGCOM REPORT FPR-1-83(32), "PMC GUAM FLEET MOORING UNDERWATER INSPECTION REPORT,"

# INSPECTION RESULTS MOORING 28E

### Buoy

This is a 9-foot-diameter fiberglass-coated drum-type buoy with a tension bar. The buoy is painted with standard colors and has a 19-inch freeboard. The top plate and top jewelry are badly rusted, and the chafing rail is bent. The buoy has been slightly damaged and has a one-half-inch-deep dent through the fiberglass. The dent is heavily rusted, the fiberglass is chipped, and the metal below the chipped area is deteriorating.

#### Riser

The riser consists of 2 1/2-inch chain. Single and double link measurements were all larger than 90 percent of the chain's initial wire size. The riser vertically enters the bottom at a water depth of 32 feet.

## **Ground Legs/Anchors**

Not visible for inspection.

#### Recommendation

This mooring is in satisfactory condition for continued use as a class B mooring. However, the buoy is in need of refurbishment.

WATER DEPTH:		33		ANCHOR	SIZE/T)	re: SZ	K 5700	KLESS	BUOY	TYPE: 2	x6 1	ANCHOR SIZE/TYPE: 30K STOCKESS BUOY TYPE: 9x6 DRUM WHAKEPIPE
OLIOM TYPE:		SAND	a	MUD MUD		CLAY		CORAL		Пвоск	Visibility_	lity $\frac{10^{1}}{10^{10}}$ D = depth NI = not inspected, inaccessible
							CONDITION	TION				
COM	COMPONENTS		ž	NEW	SH	SINGI'E LINK %	1 %	BOOR	DOUBLE LINK %	* *	a	COMMENT
					60	80÷	-08	÷06	801	-08		
RUOY	BUOY HARDWARE	HE										19 "FREEGRARED, TOP PLATE RANLY
F"SHAC	F"SHACKLE W/LUGS	1165		3%,								RUSTED. CHAFINGRAIL BENT, BUDY
PIN SI	PIN SHACKLE			ひなら								DAMAGED HAS 1/2" DENT WITH
PEAR LIWK	LIUK			3 24"								CORRODING HETAL SHAWING
	NEAR BLIOY	0.7		3%"	7			7			<10,	
HISTH	MIDDLE			_	7			7			/%/	
	NEAR GRD RG	D RG		<b>→</b>	7			7			775	
OHS	GROUND RING		_									
	LIPPER END	9										
	MIDDLE											
<b>Y S</b>	LNIERSBOTTOM	OFFOM						<u></u>				
CONTRACTOR	UPPER END	g										
166	MIDDLE											
	LNIERS BOTTOM	OFFOM										
	ONT H THO	O										
166 166 167	MIDDLE											
	ENTERS BOTTOM	OFFOM										
( Main Ma)	OFFER LND	<u>_</u>										
9 02	MIDDI É											
	INTERS BOLLOM	MOLIO	>									
INII 10 JUNE 83	JUNE	1	ENGIN	ENGINETH IN CHARGE: A. J., DODSON	HARGE	A.J.	gaz	NOS	)   	Ens: C	TEU	DIVERS: COTELLESSA / HARDING

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MOLITING NO . 28 E CLASS:

BR LOCATION: PWC GURY LAT: 13-25-34.6 N LONG: 144-40-10"E

CHESSALFACENCEOM REPORT FPR-1-83(32), "PWC GUAM FLEET MOORING UNDERWATER INSPECTIOM REPORT,"

# INSPECTION RESULTS MOORING 28W

#### Buoy

This is a 12-foot-diameter drum-type buoy with a hawsepipe. The buoy is painted with standard colors and has a 34-inch freeboard. The general condition of the buoy is good.

#### Riser

The riser consists of 2 1/2-inch chain. All single and double link measurements were larger than 90 percent of the chain's original wire size. A 4 5/8-inch diameter ground ring was found near the bottom at a water depth of 30 feet.

#### **Ground Legs**

The upper 10 feet of the three ground legs were visible before the chain entered the bottom. All three legs were 2 1/2-inch chain and all measurements were larger than 90 percent of the original wire diameter.

#### **Anchors**

Not visible for inspection.

#### Recommendation

NI = not inspected, inaccessible 34" FREEBOARD. FENDER GOOD 26 1006 COMMENT " HARINE GROWTH BEARING 050 H MAYINING NU. 28 W CLASS: BR LOCATION: PUC GUMMLAT: 13-35-34.9 NLONG: 144-46-046"E ANCHOR SIZE/IYPE, ZOK STOCKLESS BUOY IYPE, JX6 DEUM WITHUSEPIPE 3200 D = depth. 34" DIAHETER 278"SWIVEL BEARING BEARING Visibility 10 3, 30 2 30, ٥ 38 31 35 ☐ ROCK å DOUBLE LINK % **6** CLAY CORAL ġ CONDITION 7 7 å SINGLE LINK % ġ ā 7 MUD MUD 2%" 22" 3,7" NEW Ē ONVS | ENTERS BOTTOM **ENTERS BOTTOM** SPIDER NEAR GRU RG U/W DETACHABLE 36 3 PEAR **NEAR BUOY** BUOY HARDWARE LIPPER END UPPER END JPPER END GROUND RING COMPONENTS MIDDLE MIDDLE MIDDI E MIDDI E BOTTOM LYPE: WATERDEPHE SPIDER GROUND LEG NO. A GROUND 11G NO C CINCORE SPIDER 2 PEAR HISTH A-46

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SCHEUREN DIVERS: AUSTIN, INTELLO JUNE 83 INGINITION CHARGE AT DODSON

NOTION STORY

36

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7/1 "

FNIERS BOTTOM

MPER END

MIDDI E

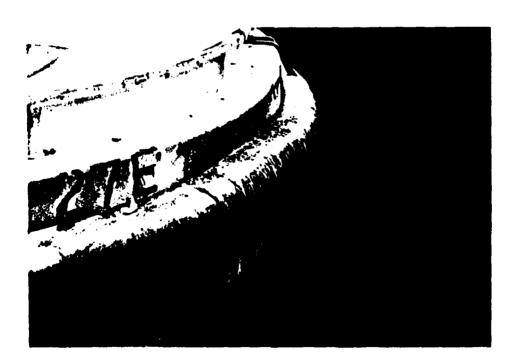
GROUND 1EG NO D ANNEX B

**PHOTOGRAPHS** 



Marine Growth on the Bottom of Buoy 701.

This is Typical of the Condition of Most Buoy Hulls



Damaged Fender and Upper Hull of Buoy 27E



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Heavy Rusting of Top Deck and Jewelry of Buoy 28E



Ground Ring of Mooring 22/23.

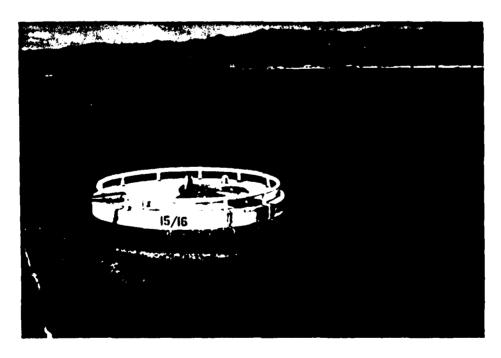
Note that Two Legs are Together at Their Attachment to the Ring



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Swivel in the Riser of Mooring 15/16



Typical Good Condition of Recently Overhauled Buoys

ANNEX C

REFERENCES

lo:

UUJU

1951200

CHEZNAVEACENGOOM WAZHINGTON DO

TO PWC GUAM

INFO COMNAVEACENGCOM ALEXANDRIA VA

PACNAVFACENGCOM PEARL HARBOR HI

NUCLAS \\NJJOOO\\

ZUBJ: FLEET MOORING INSPECTION

A CHESNAVFACENGCOM/UCT TWO UNDERWATER INSPECTION OF THE 22 FLEET MOORINGS LOCATED AT GUAM WAS CONDUCTED DURING THE PERIOD 6-14 JUNE LTHIS IS A PRELIMINARY REPORT OF THE INSPECTION RESULTS. FINDINGS ARE AS FOLLOWS:

A. MOORINGS 951, 701, 702, 703, 22, 22/23, 501, 25E, 25W, 26E, 260 276, 270, 12/13, 13, 14, 15/16, 17, 286, 280, EC-2: GOOD CONDITION.

B. MOORING 704: RECOMMEND OVERHAUL AS PLANNED TO UP GRADE MOORING TO ORIGINAL CLASS A.

CHESNAVFACENGEOM POINT OF CONTACT IS MR. J. MCLAUGHLIN AT AUTOVON 288-3881 OR {202} 433-3881.

D 57F

3 2

> Rich FP0-107 COPY TO: MCLAUGHLIN D9/DD; D161; DAILY FPO-LEA{PDC7: FF5-LEA 15 JULY 83 FPO-LEAS: FPO-LC7 FPO-1C. FPO-10P2 E. B. EPONZER, HD, OCEAN ENGR &

UNCLASSIFIED

DD 173.2

ROUTINE

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R 220001Z APR 83

FM PWC GUAM

TO CHESNAVFACENGCOM MASHINGTON DC

INFO COMNAVFACENGCOM ALEXANDRIA VA COM THREE ONE NCR PORT HUENEME CA COM THREE ZERO NCR GUAM COMCBPAC PEARL HARBOR HI PACNAVFACENGCOM PEARL HARBOR HI UCT TWO

BT UNCLAS //N11000//

SUBJ: FLEET MOORING INSPECTIONS

A. CHESNAVFACENGCOM WASHINGTON DC 123054Z APR 83

1.	THE FOLLOW	ING INFO	IS PROVE	IDED FOR	PARAGRAPHS	1, 2.A,	2.F AND
2.G	OF REF A:						
MOOR	RG MOORG	WTR	DATE	DATE	RPTD	PLND	TYPE
NO.	CLASS	DEPTH	INSTO	OVHLD	COND	OVHL	SHIPS
		(FT)					
951	AA	130	12/59	6/82	FAIR	6/88	AS-19
701	8	125	4/59	1/81	GOOD	1/86	AFS-7
702	A	150	6/57	2/82	GOOD	2/85	AFDL-21
703	В	140	6/57	2/82	GOOD	2/87	•
704	E	125	10/69	1973	POOR	4/84	•
501	8	160	7/57	3/82	GOOD	3/87	
25W	В	36	4/53	2/81	GOOD	2/86	22 CAPE
							CLASS
25E	a	36	4/53	2/81	6000	2/86	YTB
36E	8	32	9/53	3/82	GOOD	3/87	YTB
<b>56M</b>	8	32	9/53	3/82	GODD	3/87	SWOB
27E	8	37	9/53	4/82	GOOD	4/87	•
27W	В	32	9/53	4/82	GOOD	4/87	30 BALSAM
							CLASS
28E	8	36	9/53	9/82	GOOD	9/87	YFN, YC
28W	B	36	9/53	9/82	GOOD	9/87	YPD
22	В	70	9/53	8/82	GOOD	<b>6/87</b>	YON
22/2		58	9/53	8/82	GOOD	8/87	•
12/1		105	•	7/82	6000	7/87	•
13	D	97	•	7/82	GOOD	7/87	•

DLVR: CHESNAVFACENGCOM WASHINGTON DC(9)...ACT

RTD:000-000/CDPIES:0009

649098/112 1 DF 2 M1 0270 112/10:04Z 220001Z APR 83 CSN:RXDY00271 PWC GUAM

14	0	97	10/53	6/82	GOOD	6/87	YC
15/16	D	97	10/53	9/82	GOOD	9/87	YTB
17	ð	69	9/53	5/82	G000	5/87	YON
NOTE:	BUDYS	ARE NOT	INSPECTED	AFTER	OVERHAUL		

- 2. FOR PARA 2.E: THERE IS NO ANTICIPATED MOORING USAGE DURING THE INSPECTION PERIOD IN JUNE 1983, UNLESS TYPHUON PREPARATIONS ARE NEEDED.
- 3. FOR PARA 2.H: CATHODIC PROTECTION IS PROVIDED ONLY FOR MODRING 27W AND CONSISTS OF ZINC LINK ANDDES.
- 4. INFO REQUIRED BY PARAGRAPHS 2.8, 2.C AND 2.D TO BE MAILED 25 APRIL 1983.
  BT

649095/112 CSN:RXDY00271 2 OF 2 M1 0270 112/10:04Z

220001Z APR 83 PWC GUAM

ROUTINE

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R 132054Z APR 83

FM CHESNAVFACENGCOM MASHINGTON DC

TO PWC GUAM

INFO COMNAVFACENGOOM ALEXANDRIA VA COMCBPAC PEARL HARBOR HI COM THREE ONE NOR PORT HUENEME CA PACNAVFACENGCOM PEARL HARBOR HI COM THREE ZERO NCR GUAM UCT TWO

BT UNCLAS //N11000//

SUBJ: FLEET MOORING INSPECTIONS

- 1. AS PART OF THE COMNAVFACENGEOM FLEET MODRING MAINTENANCE (FMM) PROGRAM, CHESNAVFACENGEOM, WITH DIVER SUPPORT FROM UCT TWO, PLANS TO CONDUCT AN UNDERWATER INSPECTION OF THE 20 MOORINGS OPERATED AND MAINTAINED BY PWC GUAM DURING JUNE 1983. AVAILABLE INFORMATION INDICATES 3 CLASS A MOORINGS IN 125-150 FEET OF WATER, 10 CLASS B MOORINGS IN 32-160 FEET OF. WATER AND 7 CLASS D MOORINGS IN 32-105 FEET OF WATER. INSPECTION WILL RESULT IN SPECIFIC CONDITION ANALYSES AND RECOMMENDATIONS BY MODRING AND WILL ENHANCE THE PROGRAMMING OF FUNDS FOR FLEET MOORING MATERIAL SUPPORT.
- 2. THE FLEET MOORING INSPECTION TEAM WILL CONSIST OF A CHESDIV ENGINEER-IN-CHARGE (EIC) AND A DET FROM UCT TWO. IN ORDER TO PREPARE A DETAILED INSPECTION PLAN, THE FOLLOWING INFORMATION IS REQUIRED PER MOURING:
- A. MAINTENANCE HISTORY WHEN INSTALLED, WHEN INSPECTED, WHEN OVERHAULED, LAST REPORTED CONDITION, ETC.
- B. COPIES OF AVAILIABLE MODRING DESIGN CALCULATIONS AND DRAWINGS.
  - C. COPIES OF "AS-BUILT" MATERIALS LIST.
- D. FACILITY MAP SHOWING LOCATION OF ALL MOORINGS WITH SPECIFIC LOCATIONS FOR THOSE CURRENTLY IN USE.
- E. ANTICIPATED MOOHING USAGE DURING THE INSPECTION PERIOD TYPES OF SHIPS.
- F. PLANNED REPAIRS AND OVERHAULS PARTICULARLY THOSE BEFORE THIS INSPECTION.
  - G. TYPES OR CLASSES OF SHIPS USING MOORING.
  - H. WHETHER CATHODIC PRUTECTION SYSTEMS ARE INSTALLED AND TYPE

DLVR: CHESNAVFACENGCOM WASHINGTON DC(9)...DRIG

RTD:007.-000/CUPIES:0009

593518/103 1 OF 2 M1 0468 103/23:42Z 132054Z APR 83 CSN:RXOY70509 CHESNAVFACENGCOM WASHINGTON DC

OF MATERIALS UTILIZED.

- 3. REQUEST PAC, GUAM MAIL THE ABOVE INFO AS SOON AS POSSIBLE TO CHESNAVFACENGEOM (CODE FPO-1C7), BLDG. 212, WASHINGTON NAVY YARD, WASHINGTON, D. C. 20374.
- 4. ADDITIONALLY, REQUEST PWC, GUAM REPLY BY MESSAGE WITH THE ABOVE INFORMATION EXCEPT FOR DRAWINGS AND MAPS BY 21 APRIL 1983. REGRET LATENESS OF THIS REQUEST. PWC EFFORT TO PREPARD THIS INFO WILL BE GREATLY APPRECIATED AND WILL SIGNIFICANTLY ENHANCE THE ACCURATE DOCUMENTATION OF CURRENT MOURING CONDITIONS AS WELL AS THE PROCUREMENT OF NEW FLEET MOORING MATERIALS.
- 5. CHESNAVFACENGCOM POINT OF CONTACT IS MR. JAMES MCLAUGHLIN AT AUTOVON 288-3881 OR (202) 433-3881.
  BT

593518/103 CSN:RXOY00509 2 OF 2 M1 0468 103/23:42Z 132054Z APR 83 Chesnavfacengcum Washington DC

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TO C' CHPAC PEAKL MARHOR HI

INFU CHILAYMAT WASHINGTON DC COM.A. A1PSYSCUM MASHINGTON DC CUT AVEACENGEUM ALEXANDRIA VA COMMANTELODIA MASHINGTUN DC .. CUMNAVSUPEPAC SAN DIEGO CA CUMMAVAIRPAC SAN DIEGU CA CG FMFPAC CUMUCEANSYSPAC PEARL HARBUR HI CHIMAVMARIAMAS GUAR CUMPACMISTESTEEN PT MUGU CA WESTRAVFACENGEOM SAN BRUNG CA DICC MIDPAC PEAKL HARBOR HI OICC GUAIL OICC DIEGO GANCIA HOUSTUM TX P.C GUAN PEC YUKUSUKA JA PHC SAM FRANCISCO CA CHE THREE ZERU UCK GUAM "AVEAL LENTERVILLE BEACH CA APISTA SFAL BEACH CA WAYSHIPREPFAC SUBIC BAY RP "...F AISUGI JA TWEMIPYD PURET SUMME "A .SC SA' DIEGO CA THIREFFAC MANGOR AA 1.51 RUA-4 MANSHPPFAC DIEGO GARCIA NAVSTA LONG REACH CA MSC PEARL HARBOK HI MAVSHIPYO MAPE ISLAND CA PACHISRANFAC HALAMEA BARKING SANDS HI

COMNAVSEASYSCOM WASHINGTON DC COMNAVELEXSYSCOM WASHINGTON DC CHR ARLINGTON VA COMNAVLOGPAC PEARL HARBOR HI COMSUBPAC PEARL HARBOR HI COMTHIRDFLT COMMARCORBASESPAC CAMP H M SMITH HI COMNAVFORJAPAN YOKUSUKA JA COMUSNAVPHIL SUBIC BAY RP PACNAVFACENGCOM PEARL HARBOR HI CHESNAVFACENGCOM WASHINGTON DC DICC SUWESTPAC MANILA RP DICC FAR EAST YOKOSUKA JA PWC PEARL HARRUR HI PWC SUBIC BAY RP PWC SAN DIEGU CA COM THREE ONE NCR PORT HUENEME CA UCT TWO HAVOCEANSYSCEN SAN DIEGO CA KSD SUBIC BAY RP MCAS INAKUNI JA NAVUSEAMARENGSTA KEYPORT WA HAVMAG LUALUALEI HI SUBASE BANGOR WA NAVPHIBASE CORONADO SAN DIEGO CA NAVSHIPREPFAC GUAM NAVSTA SAN DIEGO CA NAVSHIPYD PEARL HARBOR HI SUBASE PEARL HARBOR HI

R] UNCLAS //i/11000//

SUBJ: UCT THU FYES EMPLOYMENT TASKING

PLVM: CHESHAVFACENGOU! KASHINGTON UC(9)...IMFO

RTD:000-000/COPIES:0009

114776/235 1 UF 3 M1 0308 235/23:21Z 210331Z AUG 82 CSM:RX0100304 CINCPACELT PEARL HARBOR HI

- A. CINCPACELT PEARL HARBOR HI 260654Z JUN 82
- 1. REF A REQUESTED NOMINATIONS OF PROJECTS FOR UCT TWO ACCOM-PLISHMENT FY83-85. FROM THE RESPONSES TO REF A THE FOLLOWING PROJECTS ARE TASKED FOR ACCOMPLISHMENT IN FY83:
  - A. CENTERVILLE BEACH (CLASSIFIED)
  - B. ARCTIC WEST (CLASSIFIED)
  - C. BARKING SANDS, HI, CABLE LANDING AND REPAIRS
  - D. WPNSTA SEAL BEACH, DEMOLISH ANAHEIM BAY BRIDGE
  - E. NSD SUBIC, PILE REPAIR POL PIER
  - F. NSD SUBIC, PILE REPAIR MARINE TERMINAL PIER PHASE I (REPAIR ALL SEVERE AND MAJOR DAMAGE)
  - G. NAVSHIPREPFAC SUBIC, INSPECT ALAVA WHARF
  - H. FLEET MUORING INSPECTION PACIFIC DATA BASE (PEARL HARBOR HI, GUAM, YOKOSUKA, INAKUNI, SASEBO, INDIAN ISLAND WA, BREMERTUN WA)
  - I. NAVMAG LUALUALEI, INSPECT AMMO PIERS W1-5
  - J. UNDERWATER INSPECTION PROGRAM (NSC SAN DIEGO)
  - K. SUBASE, BANGOR WA, UNDERWATER INSPECTION
  - L. TRIREFFAC BANGOR WA, UNDERWATER MSF RANGE REPAIR
  - M. DEGAUSSING RANGE SURVEY, SAN FRANCISCO CA
  - N. NAVPHIBASE CORONADO SAN DIEGO CA, PIER INSPECTIONS
- 2. THE FOLLOWING PROJECTS ARE TASKED AS FILL IN WORK FOR FY83:
  - A. UNDERWATER INSPECTION PROGRAM (NAVSTA PEARL HARBOR)
  - B. NAVUSEAHAKENGSTA KLYPORT HA, INDIAN IS PHASE TWO MODRING
  - C. NSD GUAM, REPAIRS TO SIERRA WHARF GUAM.
    REQUIRES COURDINATION WITH ON SITE NMCB FOR ACCOMPLISHMENT.

THE FOLLOWING PROJECTS ARE TENTATIVELY TASKED FOR ACCOMPLISHMENT AS INDICATED:

- A. FY-84
  - (1) ARCTIC WEST (CLASSIFIED)
  - (2) NAVSHIPREPFAC GUAM, REPAIRS TO LIMA WHARF
  - (3) FLEET MOORING INSPECTION PACIFIC DATA BASE 9SUBIC BAY, NSF DIEGO GARCIA, PMC SAN DIEGO, NAVSTA SAN DIEGO, WPNGTA SEAL BEACH, NAVSTA LONG BEACH)
  - (4) NSU SUBIC, WATERFRUNT FACILITIES INSPECTION
  - (5) NSD SUBIC, MONDBUDY FUEL LINE REPAIRS
  - (6) DEGAUSSING RANGE SAN FRANCISCO, RANGE INSTALLATION
  - (7) UNDERWATER INSPECTION PROGRAM CNAVSHIPY PEARL HARBOR, NSC PEARL HARBOR, SUBASE PEARL HARBOR)
  - (8) SCARF REPAIR/INSPECTION
  - (9) BARKING SANDS, UNDERWATER RANGE REPAIRS
  - (10) NSD SUBIC, PILE REPAIR MARINE TERMINAL PIER PHASE 2

114776/235 2 OF 3 M1 0308 235/23:21Z 210331Z AUG 82 RXDY00304 CINCPACFLT PEARL HARBOR HI

Aprilonandanoe jimenranani ahtahah ili 🥻 📶 UNCLASSIFIED 

## (REPAIRS , TO MODERATE AND MINOR DAMAGE)

FY-85

- (1) ARCTIC WEST (CLASSIFJED)
- BARKING SANDS , UNDERWATER RANGE WORK (2)
- FLEET MODRING INSPECTION PACIFIC DATA GASE PRABL (3) HARBOR HI, GUAM, JAPAN, PUGET SOUND EA)
  UNDERWATER INSPECTION PROGRAM (HARE ISLAND EA)
- (4)
- SUBASE PEARL, MCON P-OBP, REPAIR AND EXTEND SEABALL (5) THIS PROJECT WILL REQUIRE SEPARATE TASKING OF AN RNMCB. CBU, OR OTHER ORGANIZATION AS PRIME CONTRACTOR" FOR PILE DRIVING AND TOPSIDE ZONE, WITH ECT ACCOMPLISHING IN WATER SUPPORT.

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